Santa Fe CN-M5
Installation manual

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2013 Santa Fe Base radio

2013 Santa Fe 4.3 Color Touchscreen

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- **Follow installation manual instructions carefully. Installer must careful to not cause interference between Navigator System c abling and active / passive car safety device (Ex: Air bags, seat belts, indicators, etc…)**
- **Turn OFF the radio.**
- **Before any attempt of component removal, the installer must disconnect the vehicle battery and isolate the ends of the cable .**
- **Do not attempt this installation operation if there are missing components. Please check the bill of materials carefully to ens ure the kit is complete.**
- **Installation requires careful attention. If you have concerns about your abilities to perform delicate operations, then do not b egin the installation.**
- **The car must be secured to not move during installation. Parking brake must be engaged at all times.**
- **Operation should be made in a clean, safe and well ventilated environment without trip hazards and slippery floors**
- **Do not install by yourself if you do not have qualifications and/or tools to perform the retrofit. You may damage the car's co mponents and/or the Navigator if not professionally installed.**
- **Poor installation can result in poor performance, personal injuries and will immediately void the factory warranty.**
- **Do not install the Navigator in a position that blocks the driver's view or hinders safe vehicle operation.**

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Caution

Installation Time is around **3 hours** with additional time required for options installation

Do NOT RUSH and if issues occur contact technical support

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Tools required for successful install -#1 = Patience!!!

Vice Grip
Electrical tape
Philips #2 screwdriver magnetic
Wide flat blade screwdriver
Masking Tape

Shop Towels & Alcohol
Hacksaw
3M Industrial double sided tape
Knife
Side cutters

Gloves

Wire strippers

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Bill of materials

Aux cable

Main I/O 1 Cable

Keypad Cable (Pre-installed)

Audio Patch Cord

Main I/O 2 Cable

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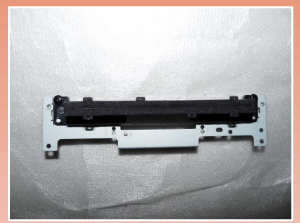
Bill of materials



Radio face plate

Radio securing Brackets

TRIP Serial cable

Flat ribbon rubber block

Mini Speaker and one screw

GPS antenna

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Bill of materials

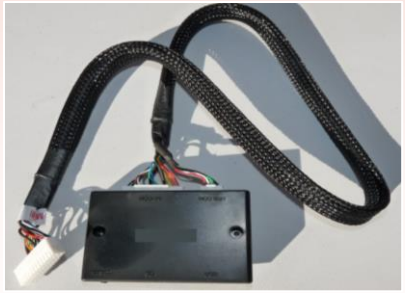
Main Touchscreen (Pre-installed into Fascia molding)

Fascia Molding

TRIP Module and two screws

SD Card (Pre-inserted into Ext. Media Box

External USB & SD Card Box



Santa Fe CN-M5

Installation manual

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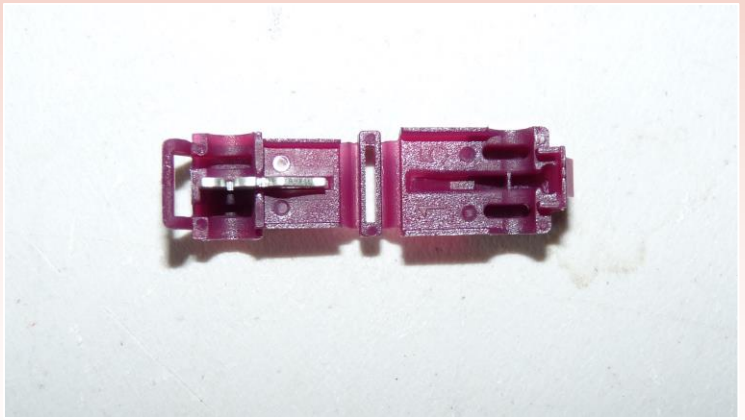
Bill of materials

Santa Fe 4.3 Color touchscreen only!!!

Trip module Video & Signal cable

T-Tap Terminal



Santa Fe CN-M5
Installation manual

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Section 3
System Cable Connections and Identification

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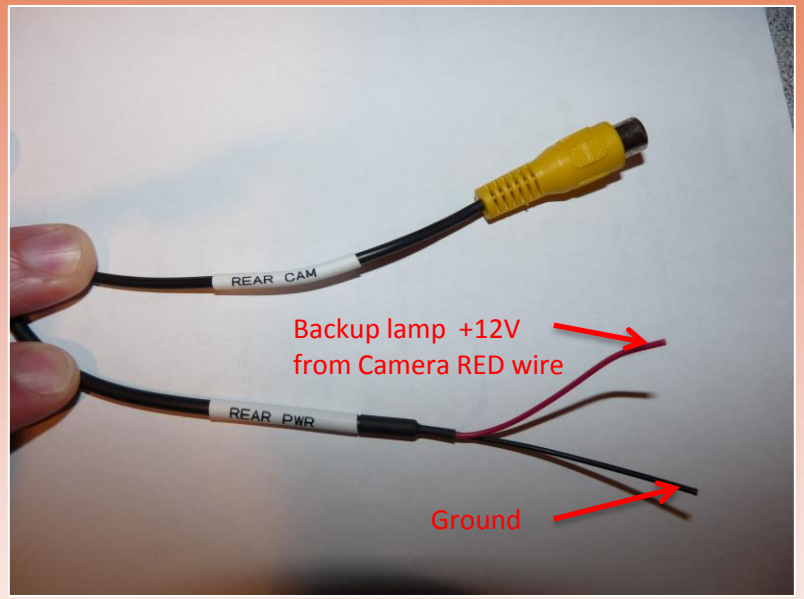
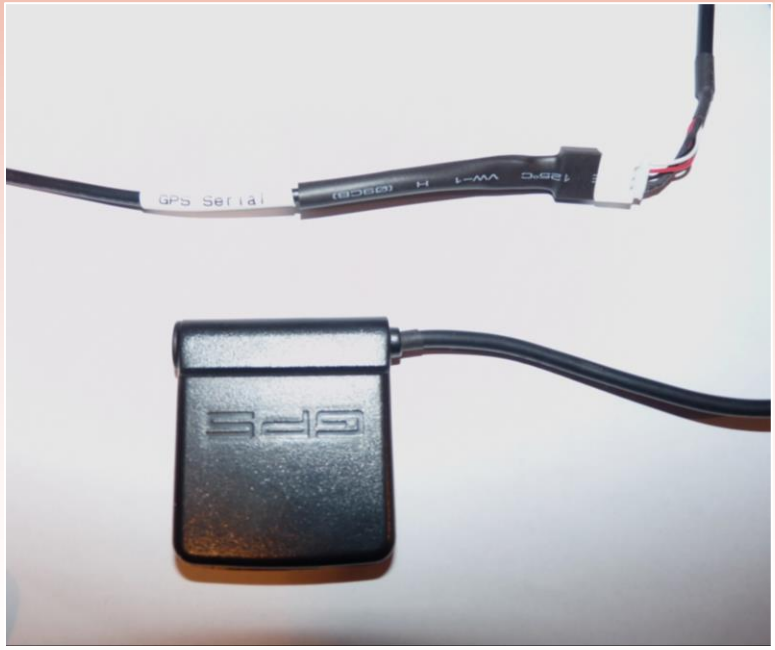


Rear Backup Camera
Cable - Main I/O 1



GPS Antenna Connection
– Main I/O 1

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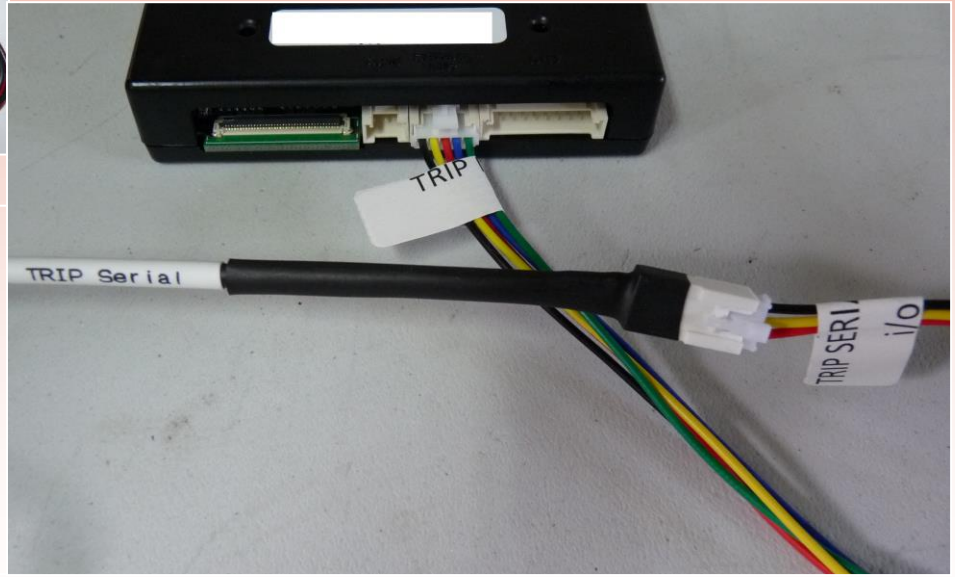
External Speaker
Connection – Main I/O 1



TRIP Serial Cable connection:

- 5 Pin **to TRIP Module**
- 3 Pin(Yellow, Red and Black) **to MAIN I/O 1 Trip Serial** cable
- 2 Pin(Blue and Green) **to** Audio Patch Cord

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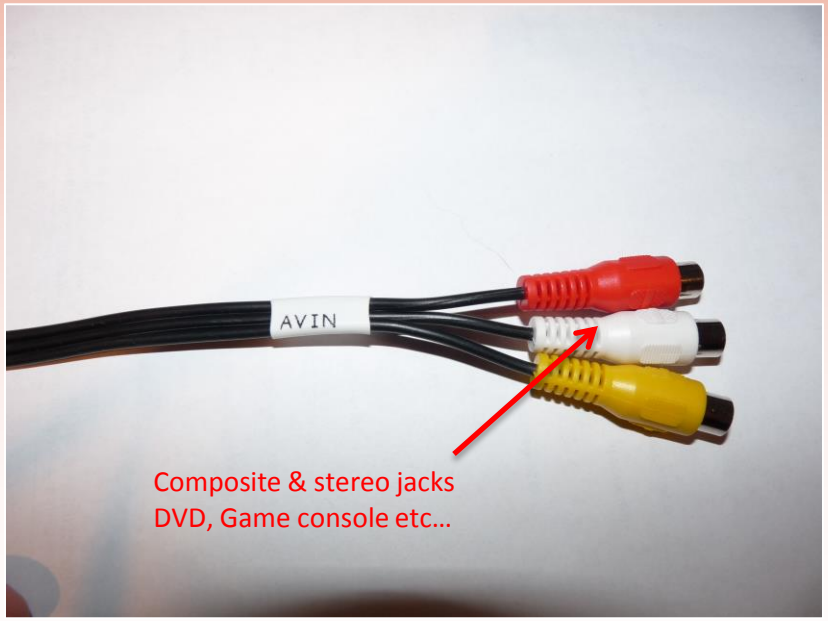
Aux Cable connection – Main I/O 1



AV In connection – Main I/O 1 (Optional)

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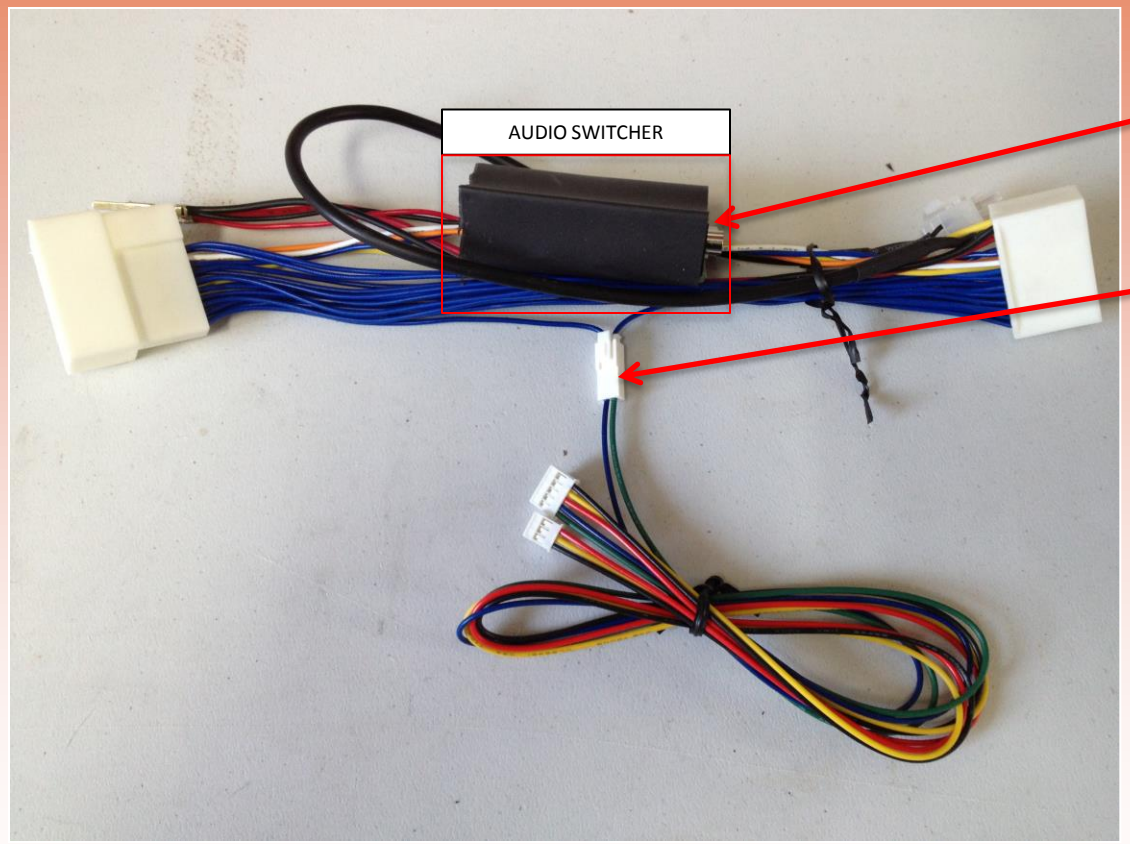

Audio Patch Cord:

- AUX IN (previous page) **to** Audio Switcher input jack.

- Steering wheel control wires (2 pin from TRIP SERIAL Cable (P:7).

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Installation manual

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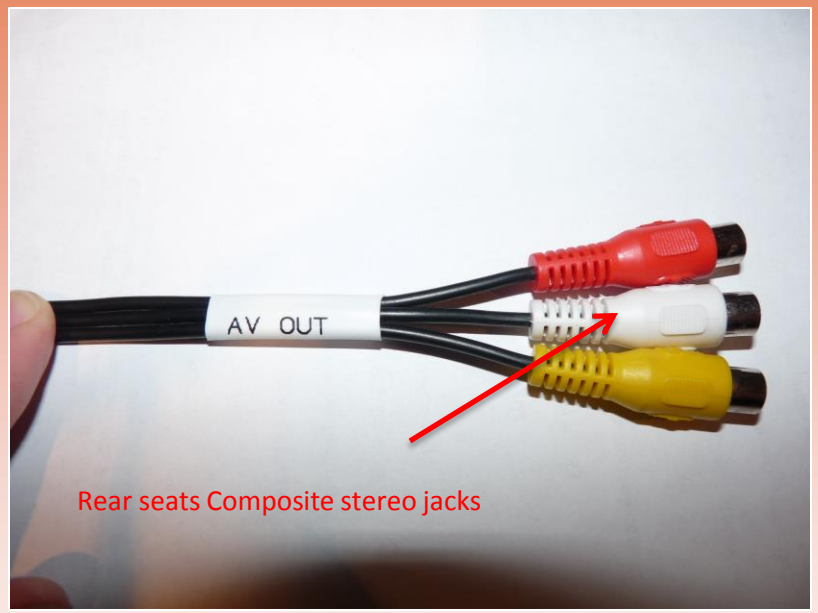

AV Out Connection –
Main I/O 2

IR Sensor and Remote –
Main I/O 2 (Optional)

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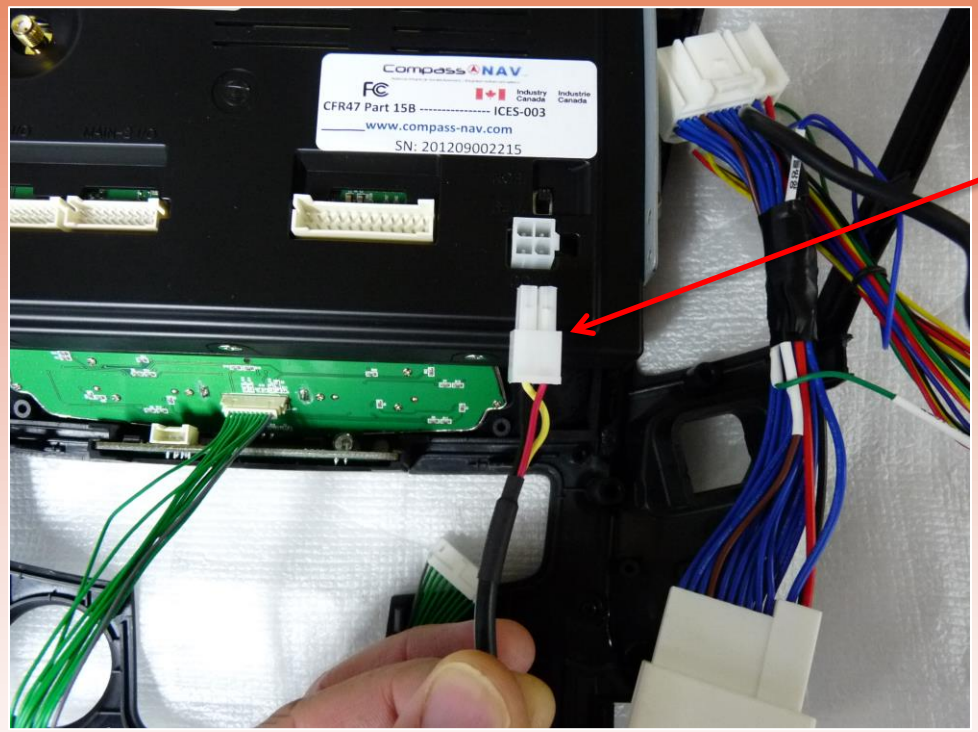

Power connector for the CN-M5 Navigator coming **from the Audio Patch cable**

Santa Fe CN-M5
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Section 4
Touchscreen Connection identification

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Installation manual

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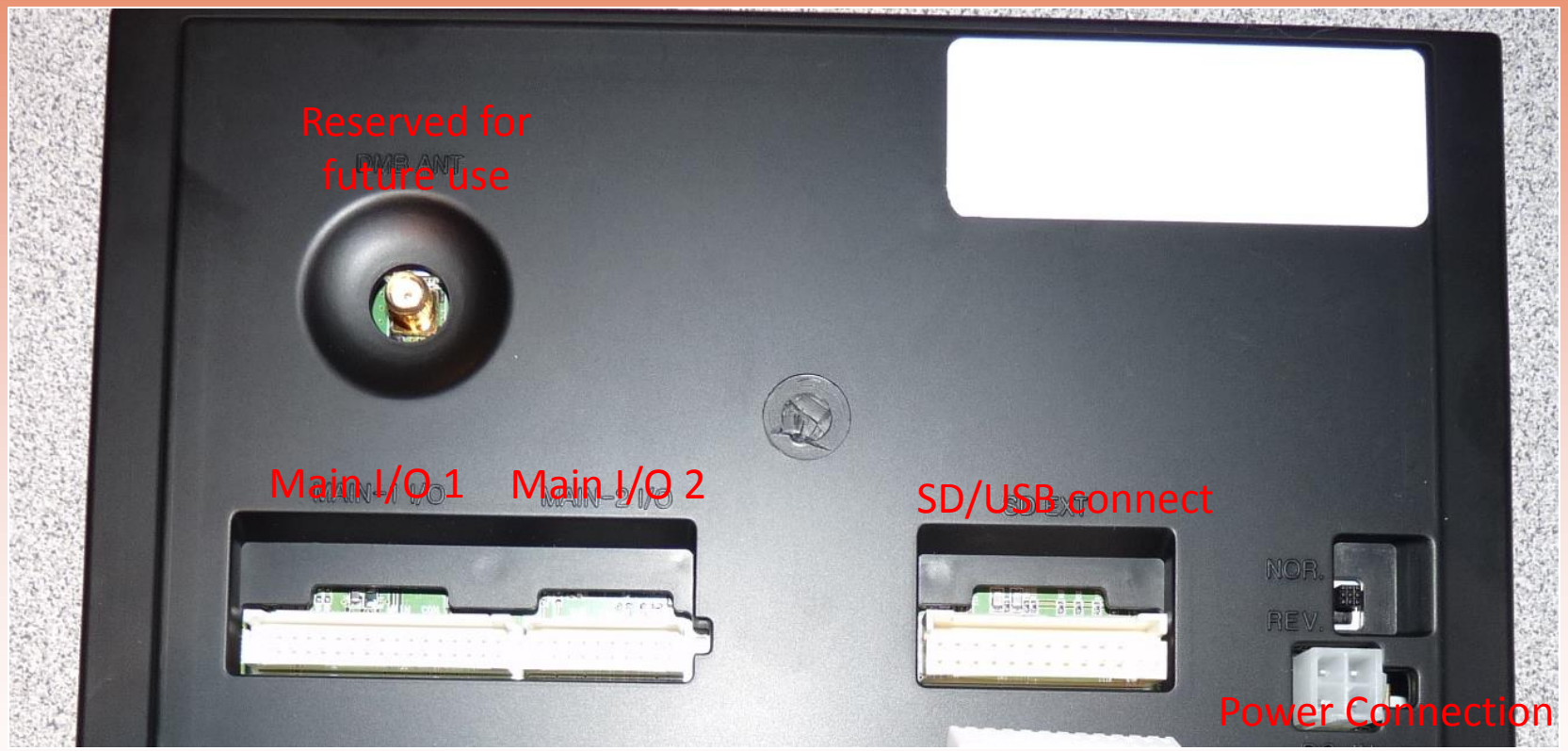

Santa Fe CN-M5
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SD/USB connection box to SD EXT connection

Main I/O Connection #1

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Main I/O Connection #2

Main Power Connection for Touchsreen

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Section 5
Trip Module Connections and port identity

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Installation manual

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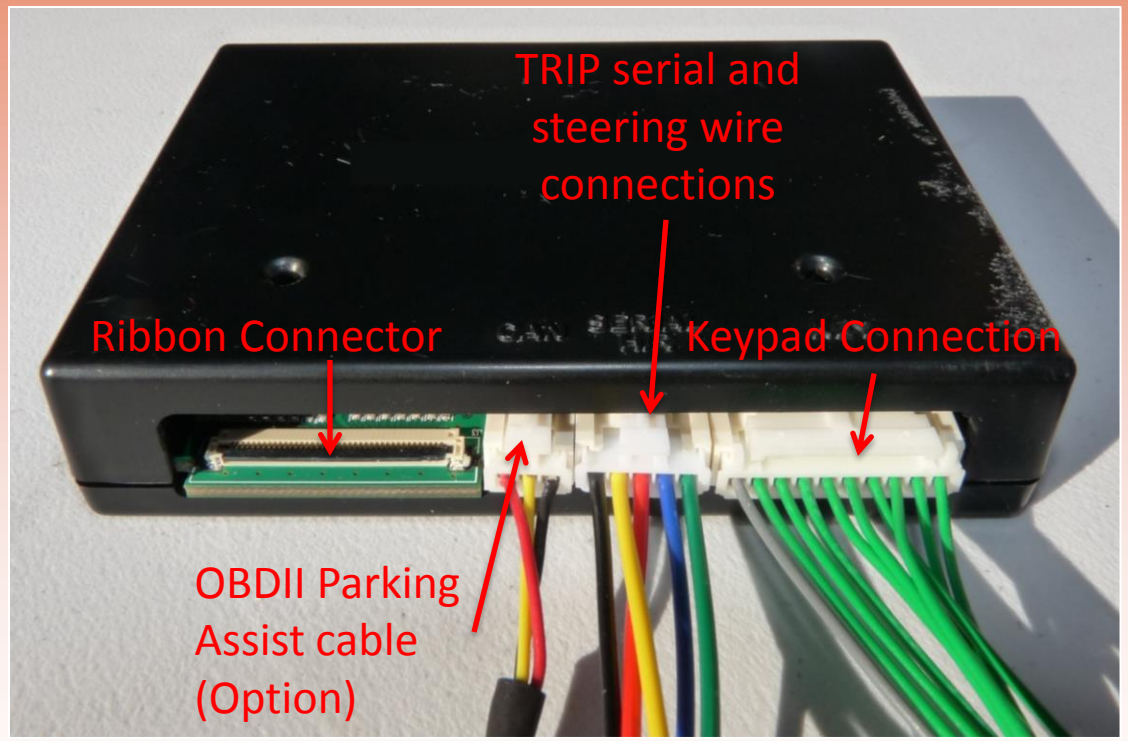
Trip Module Connections/Cable identification



Santa Fe CN-M5
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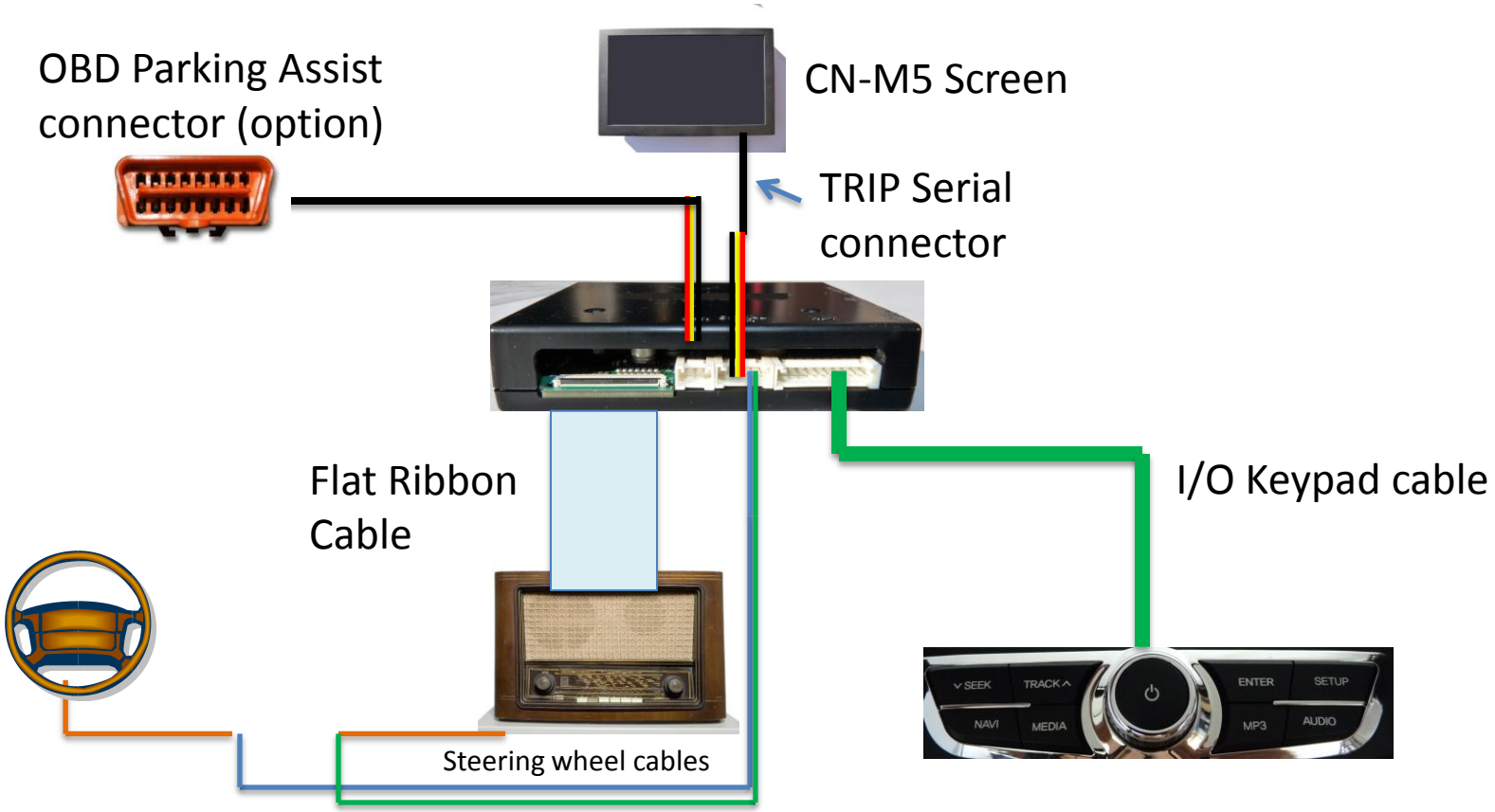
TRIP module schematic connections



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Section 6
Vehicle Preparation

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Protect the vents surrounding area with masking tape to prevent surface damage as shown.

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Carefully pry away the vent towards you starting at the bottom of the vent to gain enough to begin removing by hand.

Store the vents pieces carefully to avoid damage. Repeat the process for the other side.

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Once both vents are removed , the radio securing screws are exposed. Remove both screws and reserve. Repeat on the other side.

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Gently ease the radio forward to expose the rear.

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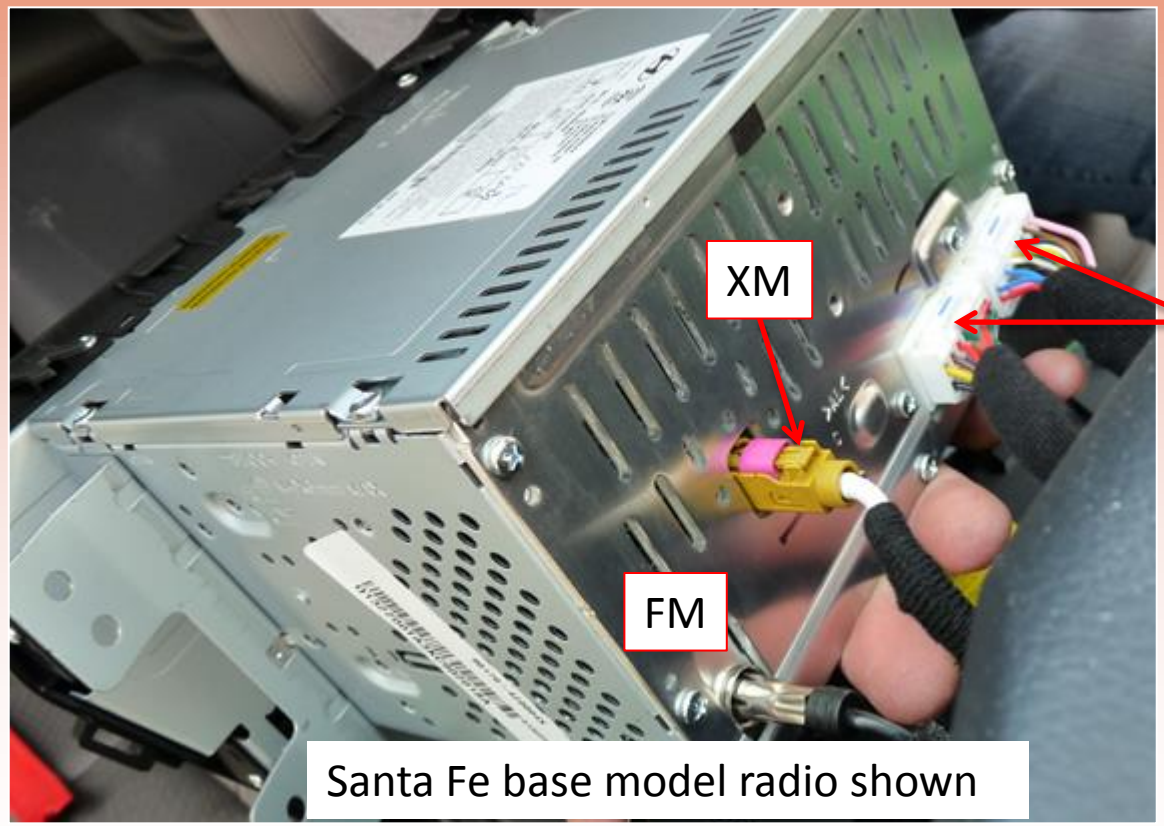

Santa Fe base model radio shown

Disconnect the **FM** and **XM** antenna from the rear of the radio. Caution, press the locking tab after the pink plastic to disengage the XM antenna. A little flat screw driver may help.

To free the radio completely disconnect the 2 multi-way connectors on the rear of the radio. Pressing the locking tab down allows the connectors to be removed from the back.
(1 additional multi-way connector to remove for the 4.3 Color touchscreen)

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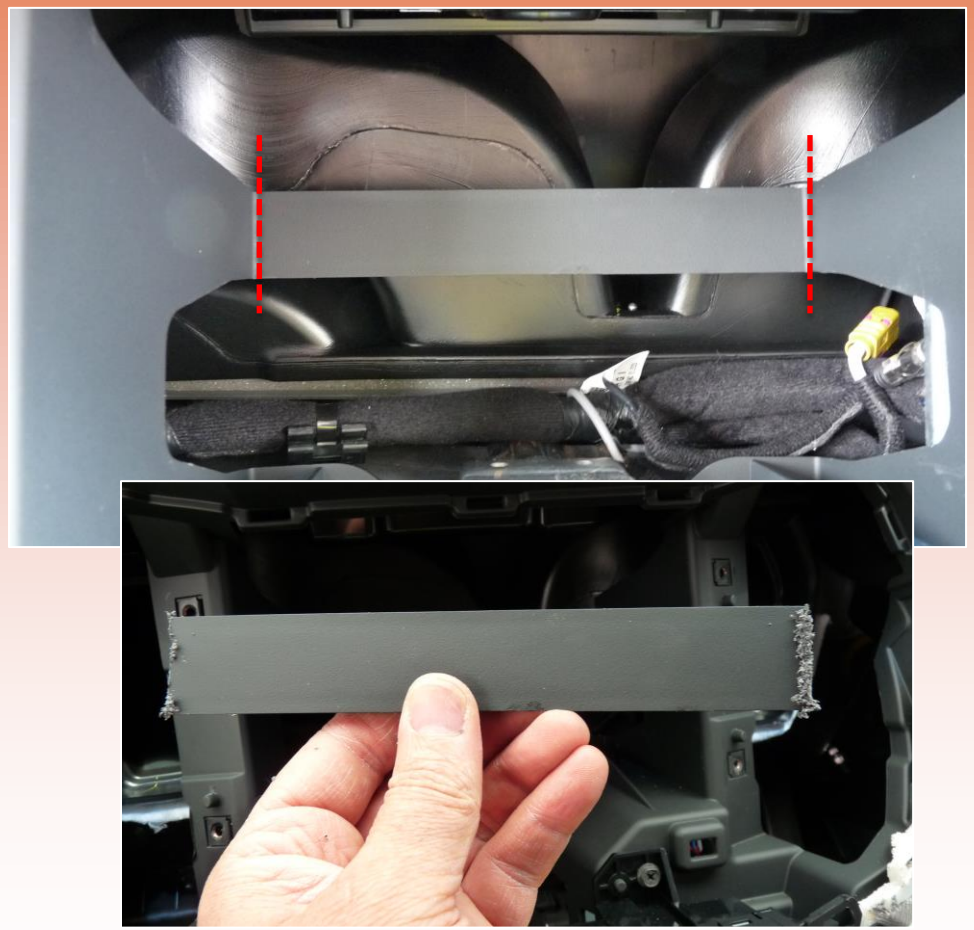

The red lines identify the area that needs to be trimmed. The factory radio will be located deeper in the dash than before to accommodate the new touchscreen and bezel mount.

Be careful to not cut electrical wires!!!!

Using a small saw (or any appropriate tool) trim the area marked to reflect the next step. This is necessary to allow the updated radio to be installed correctly.

Clean the entire area with a vacuum to remove the plastic debris.

Santa Fe CN-M5
Installation manual

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Bend all the way down the radio supporting bracket as shown. Doing this ensures enough clearance to position the cables under the radio at final assembly.

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Installation manual

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Remove the securing clip from the car harness.

Doing this will ensure enough clearance at the back of the radio at final assembly.

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Section 7
Radio Preparation

Santa Fe CN-M5
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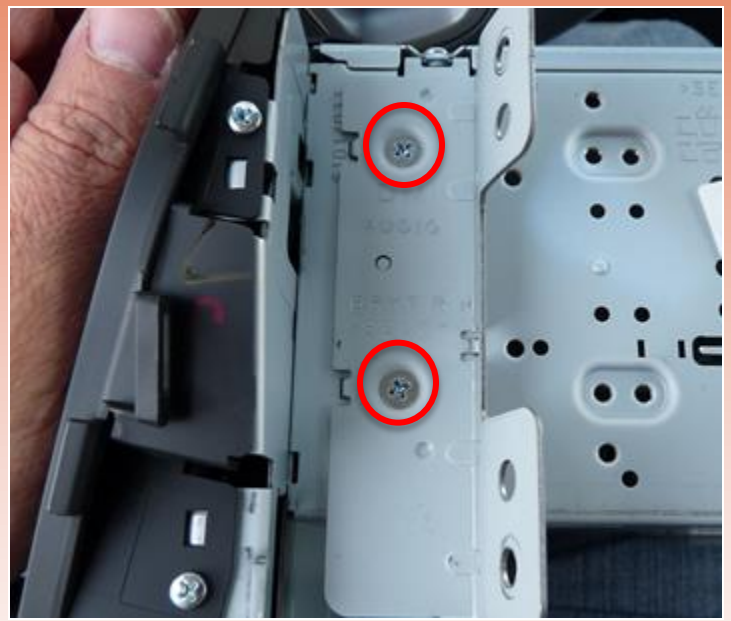

Remove existing retaining brackets using a Phillips head screwdriver. Secure the 4 screws removed.

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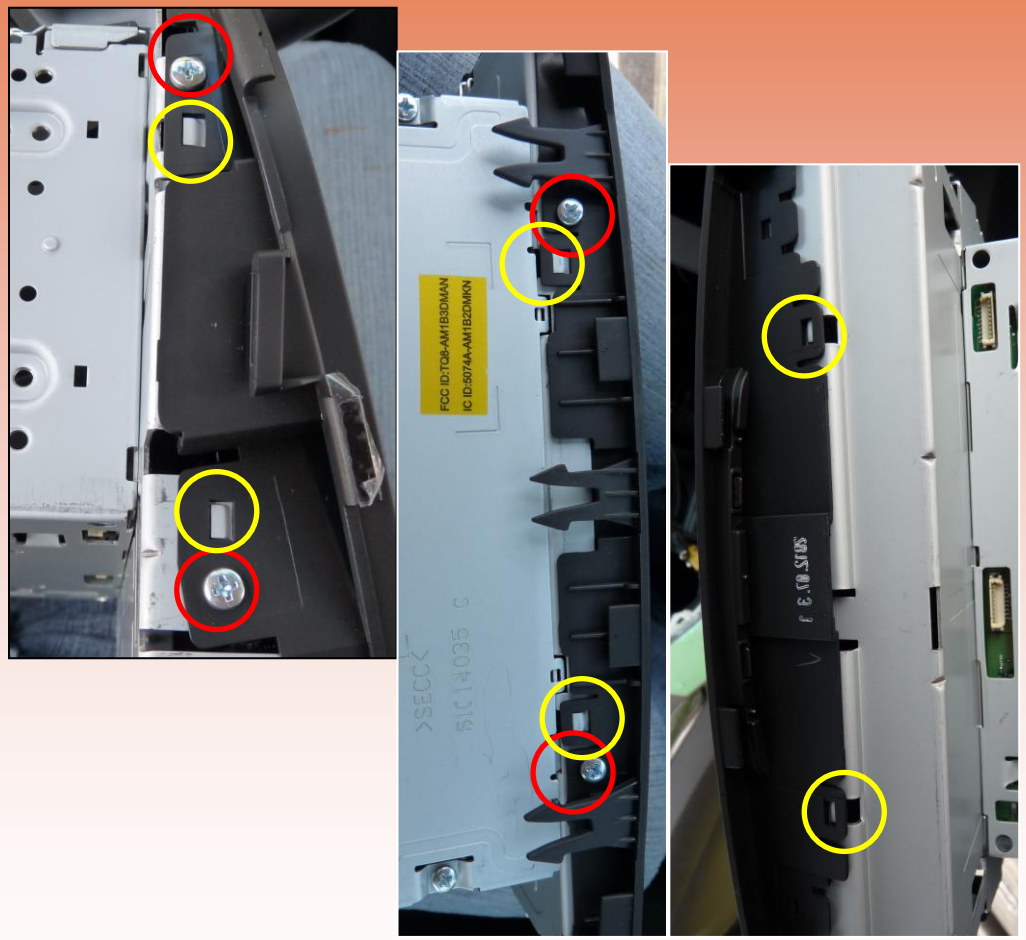

Remove the 6 front panel retaining screw as shown. (2 opposite side)

To detach the front panel completely from the radio, there are 8 retaining tabs that retain the radio panel in (2 on bottom, 2 on top and 2 either side) . GENTLY lift these up a little (DO NOT SNAP THEM OFF) and pry the radio fascia clear enough to allow access to the cables on the rear. A second flat screw driver might help to keep the clips released while unclipping others.

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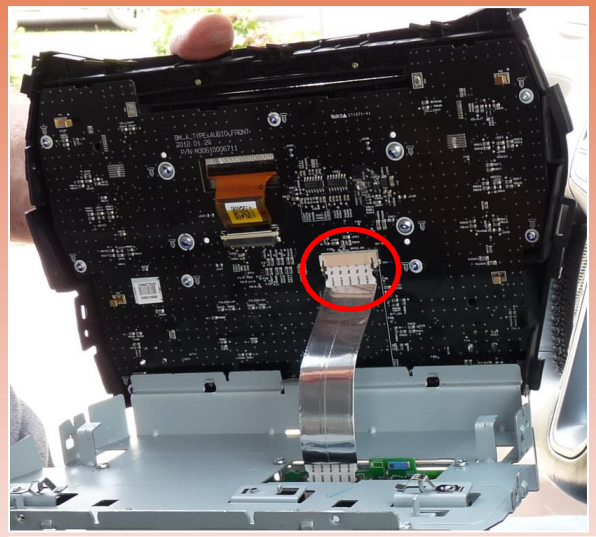
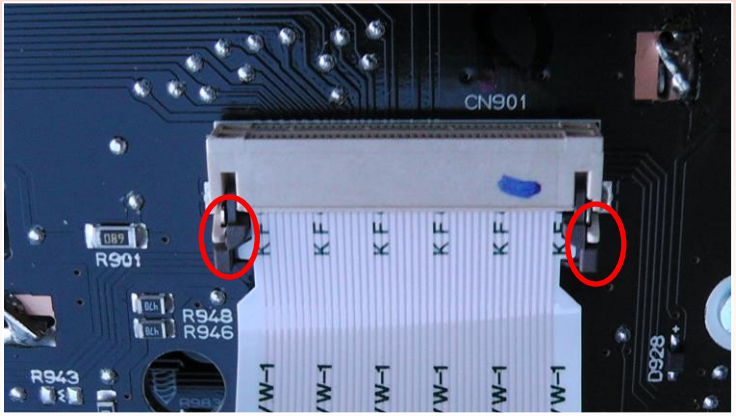


Once the panel is free of the chassis, we need to remove the ribbon cable.



Notice the ribbon cable connection. There are locking tab cutouts on the ribbon cable to ensure the cable stays in place.

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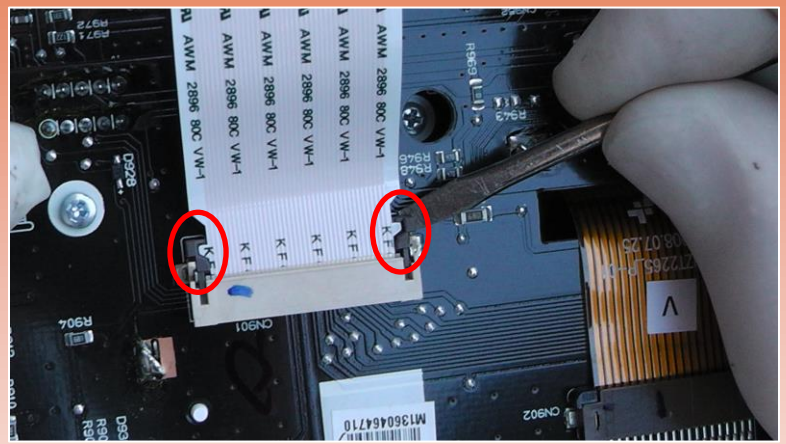
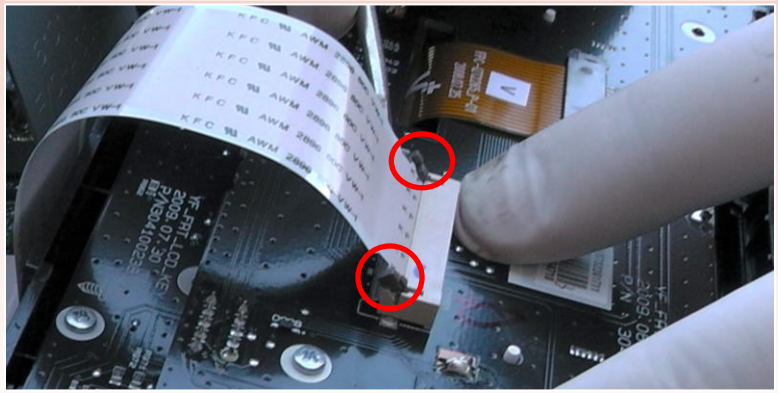


A little pressure is needed from a screwdriver to lift up the brown locking tab to allow the connector to freely be disconnected. **Be gentle to avoid damaging the brown locking tab**



Notice the red circles. The cable needs to be disengaged from the unlocked brown locking tab, to free it from the beige connector. Separate the white end from the lock by lifting gently. **DO NOT PULL HARD**

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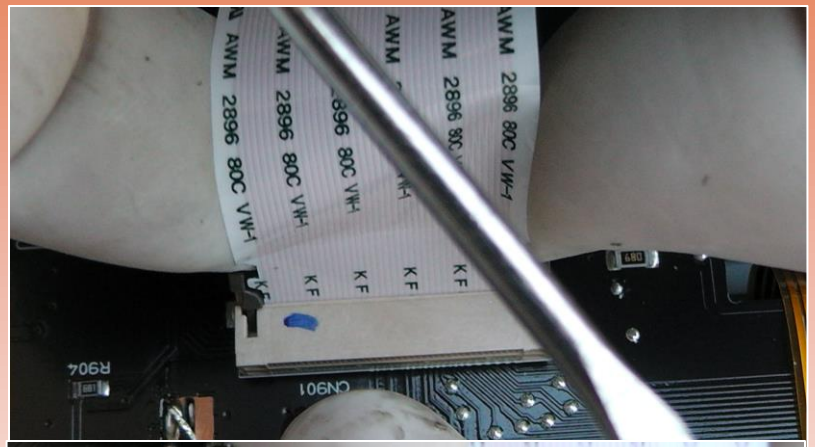
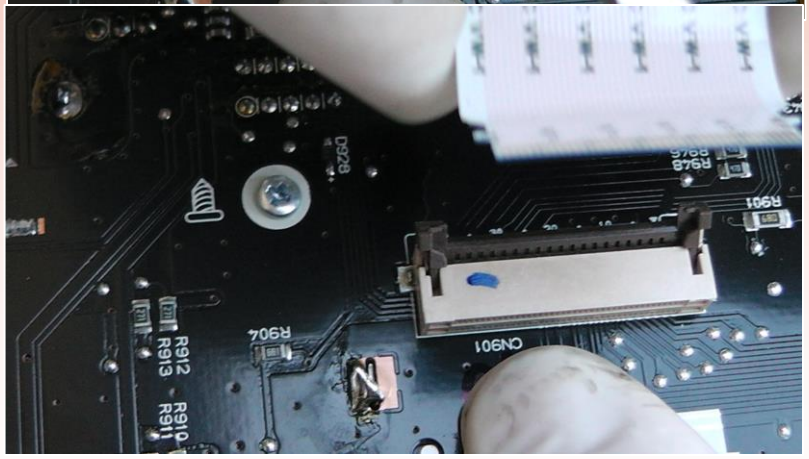


Once the cable disengages from the brown locking tabs gently remove the ribbon cable from the beige connector



Ribbon Cable disconnected – AT LAST!

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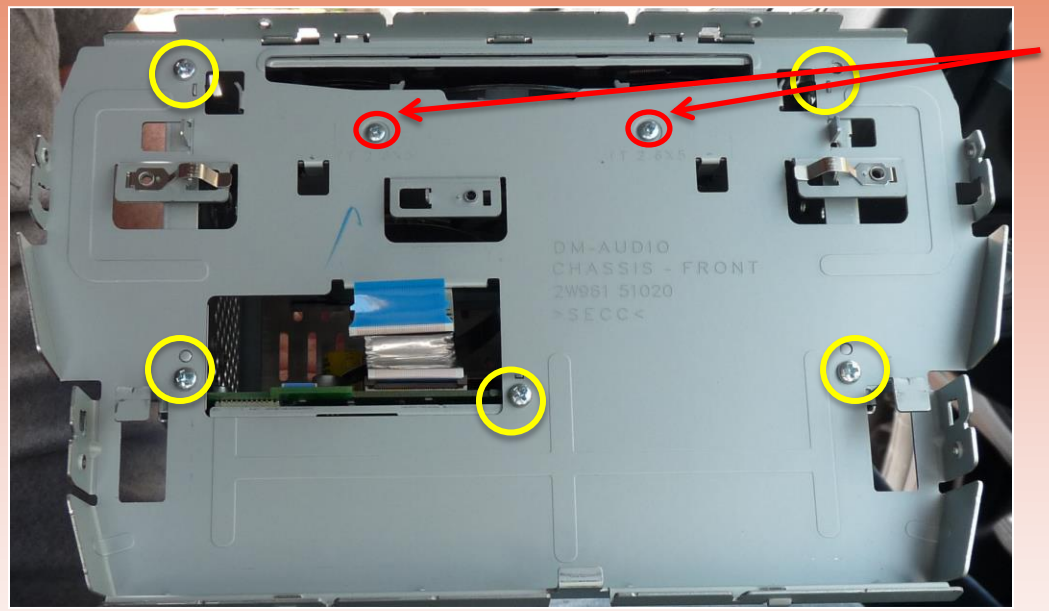

Remove the 2 screws holding the CD player as indicated here and save these separately because they are smaller. Then remove the 5 screw surrounding the face plate

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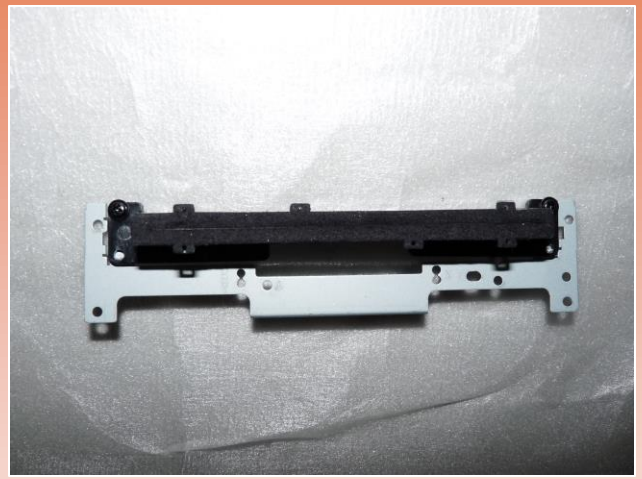
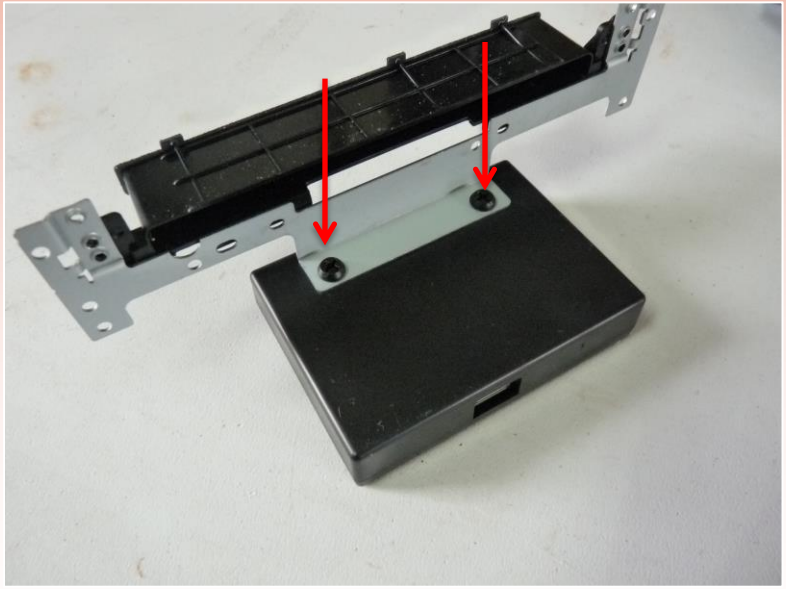


Assemble the trip module with the supplied screws as indicated. The connectors must face the face plate with the flat ribbon connector located at the left



TRIP module correctly installed

See Appendix 4:
Connect Trip module Video & Signal cable

Santa Fe CN-M5
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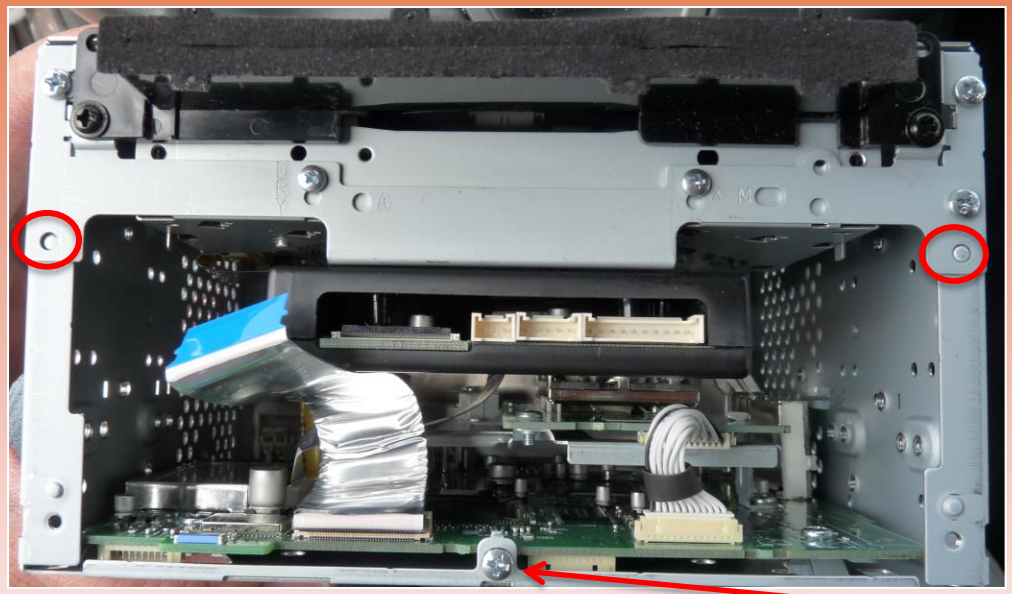

Run the flat ribbon thru the new face plate carefully. Make sure not bend the flat ribbon.

Then assemble the new face plate and locate it using the embosses circled. Screw (3) the face plate starting by the opposite corners to make sure the radio body is square.

Place a screw as shown, this will be use to ground the CN-M5 reverse camera circuit.

Screw the CD player at the top of the slots as shown using the small screws reserved separately.

Proceed with the flat ribbon install

Next page…

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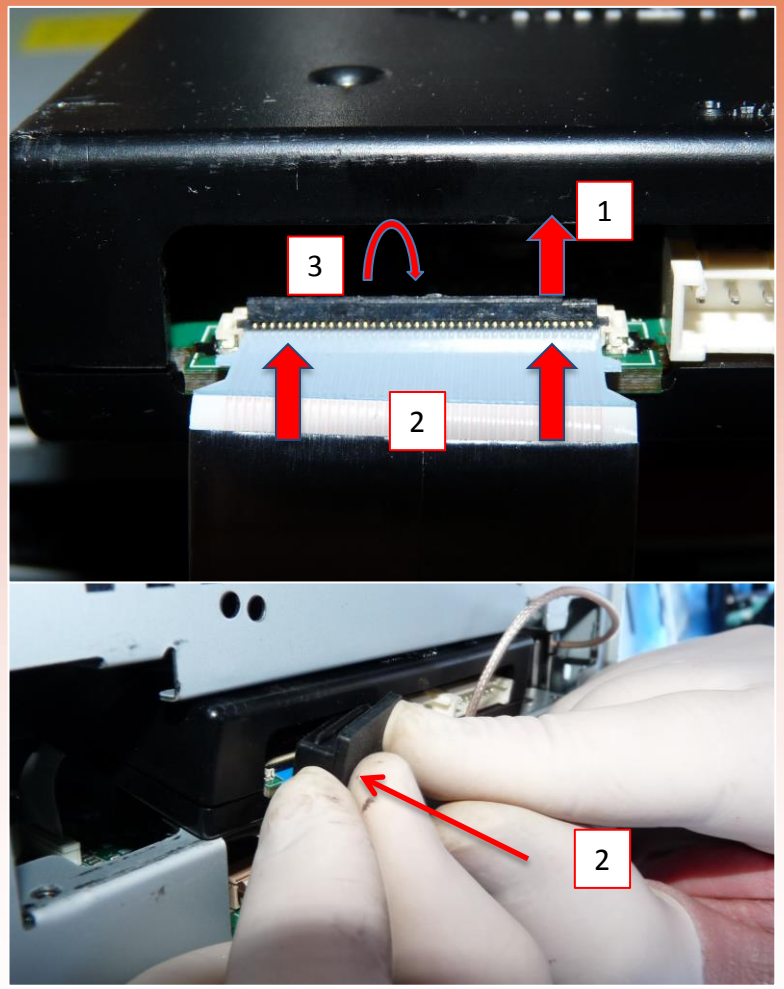

1- The **black** locking tab in the TRIP module is carefully lifted to allow the ribbon cable to be installed into the TRIP module.

2- The flat ribbon contacts (silver) need to be facing down (to make contact) and the blue needs to face up. The ribbon must be CAREFULLY but firmly pushed into the TRIP connector, ensuring it is parallel and has no bends or tears.

3- Then fold down gently the locking tab.

4- Then carefully install the rubber retainer, inserting the bottom piece first into place to ensure the locking tab and therefore ribbon cable does not disengage. Caution: **Make sure to insert the bottom of the rubber block first otherwise the locking tab may fold back and brake. If the locking tab is broken; stop the installation immediately and contact support.**

Santa Fe CN-M5
Installation manual

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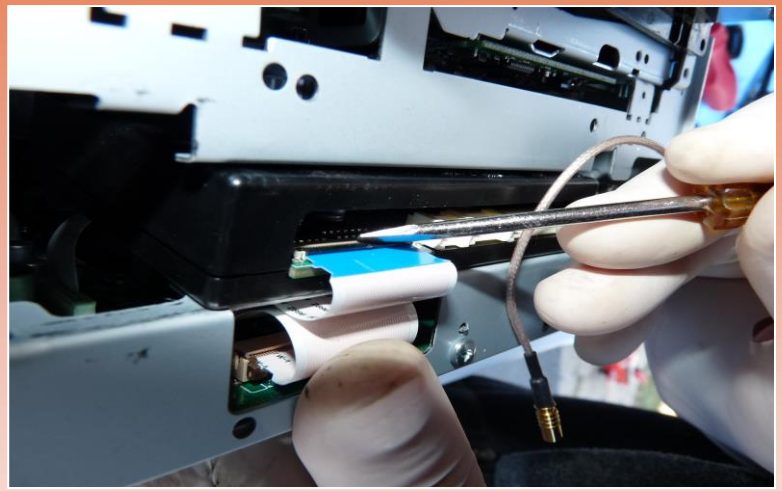
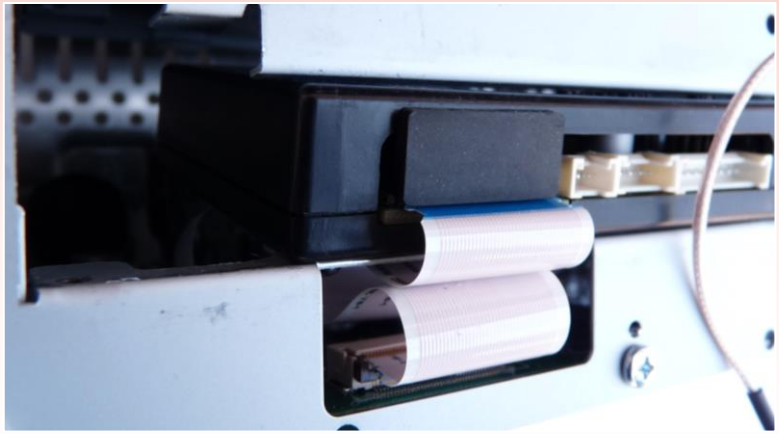


The protruding curve of the ribbon cable must be CAREFULLY eased back into the radio unit (under the TRIP module), use just enough pressure to push into the radio.



Completed TRIP module ribbon cable installation.

Santa Fe CN-M5
Installation manual

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You have successfully retrofitted your factory radio!

Santa Fe CN-M5
Installation manual

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Section 8
Radio Bracket installation

Santa Fe CN-M5
Installation manual

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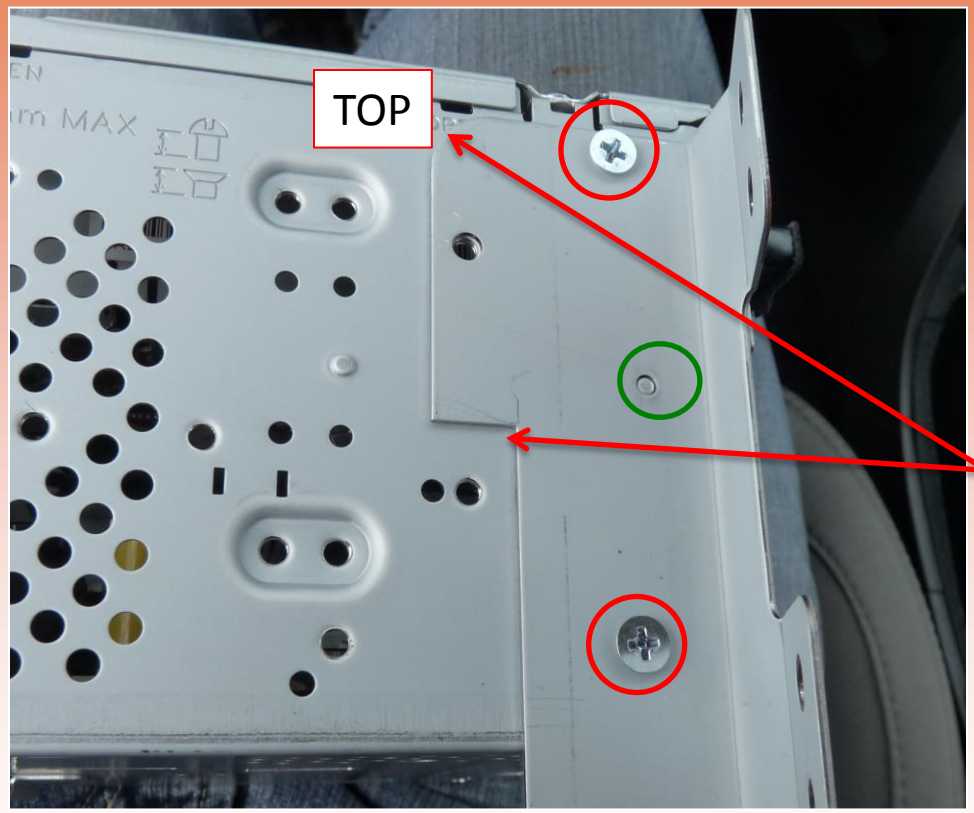

Attach the dash mounting brackets to the side of the radio using the 2 mounting points. Alignment the bracket in dimple (GREEN circle) to locate the brackets correctly. These are supplied in the installation kit.

NOTE – Look at the orientation of the brackets, the cut off check and corner radio are at the top of radio.
Repeat for the other side of the radio.

You have successfully prepared your radio.

Santa Fe CN-M5
Installation manual

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Section 9
Glove Box Preparation

Santa Fe CN-M5
Installation manual

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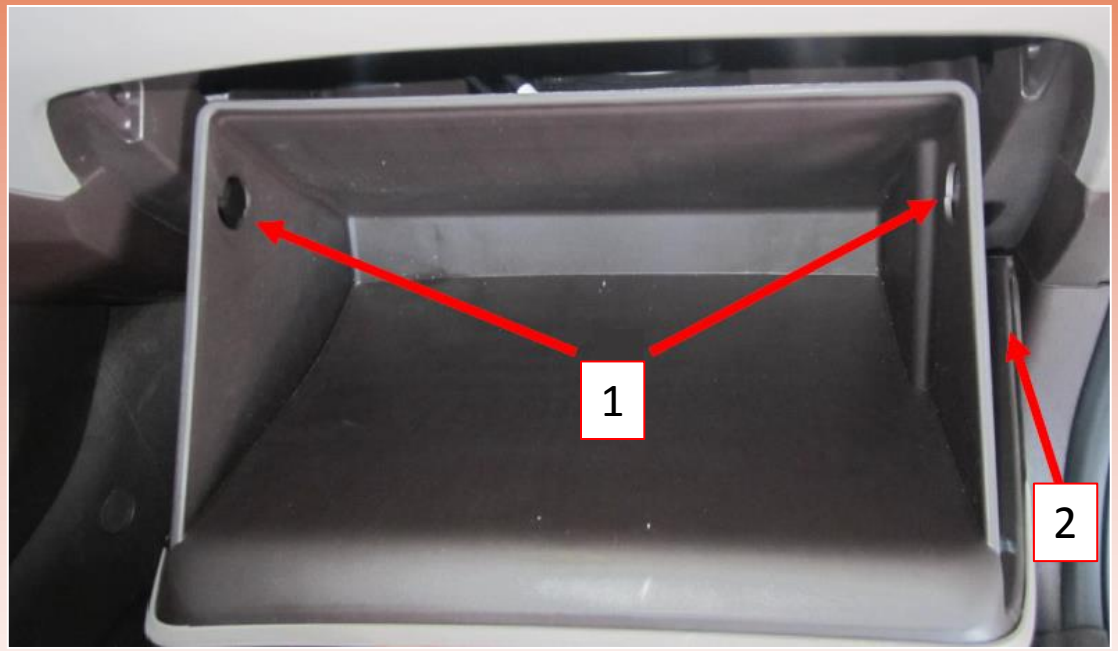

Open the glove box and rotate the guides (1) and remove them.
Disconnect the cylinder (2) to completely release the glove box.

Santa Fe CN-M5
Installation manual

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Apply 2 strips of double sided tape at the back of the external media box as shown or **use the supplied screws**.

Santa Fe CN-M5
Installation manual

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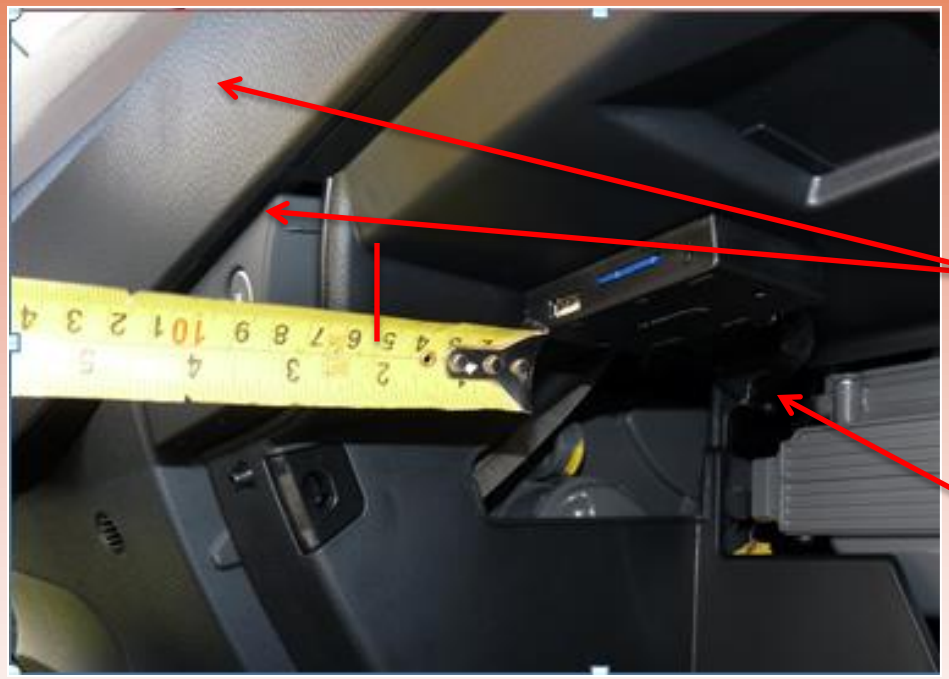

Route the External Media Storage connector under the radio location. Peel the red tape from the double face tape and affix as shown.
Affix the Media box against the left inner wall and 2” from the face as shown.

Secure the storage cord beside the air filter box.

Trim the top of the glove box to clear the Storage box <u>IF NEEDED</u>.

Santa Fe CN-M5
Installation manual

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Section 10
Electrical/Wiring Connections

Santa Fe CN-M5
Installation manual

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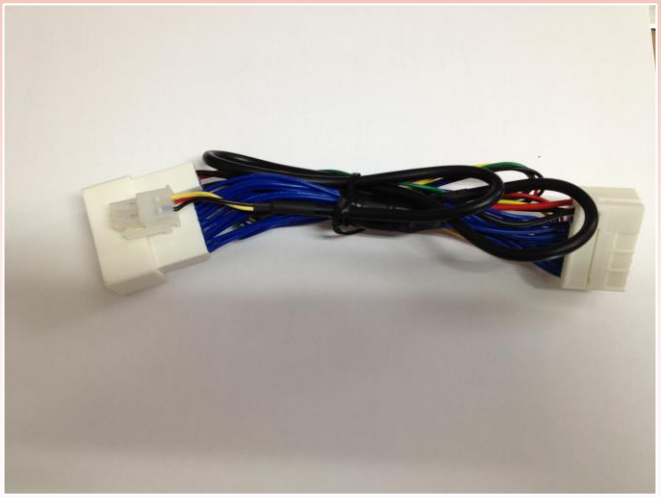
In the following section we will:

- Prepare the Audio Patch Cord for the final assembly
- Attach the Audio Patch Cord to the car & radio connectors
- Parts Required:
- Video Tutorial about this section:
  https://dl.dropboxusercontent.com/u/70065767/Manuals/Audio%20Patch%20Cord%20Assy.m2ts

Aux cable

TRIP Serial cable

Audio Patch Cord



Santa Fe CN-M5
Installation manual

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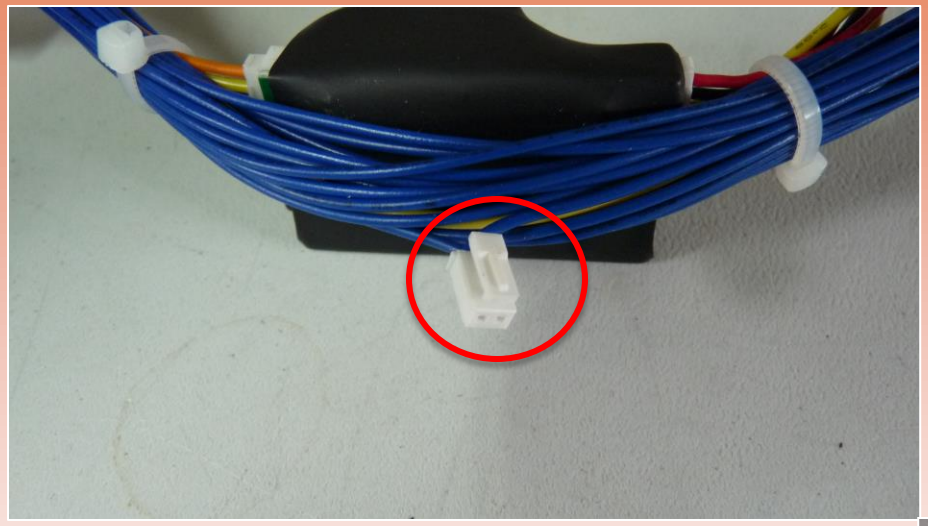
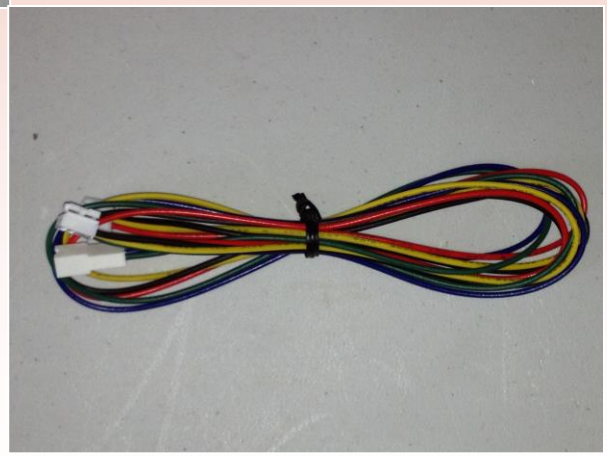


Attach the TRIP Serial cable 2 Pin connector to this connector to the Audio Patch cord as shown.

TRIP Serial cable



Santa Fe CN-M5
Installation manual

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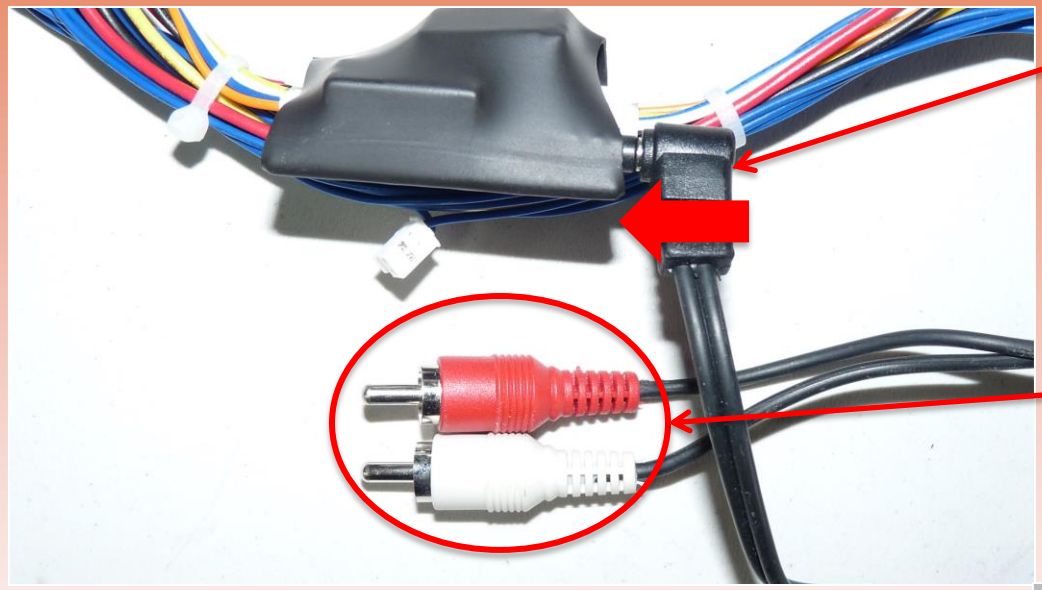

Attach the AUX cable male jack into the female of the Aux switcher board as shown. Secure in place with Electrical tape.

Reserve the White and RED RCA jack to be connected into the AUX cable from the MAIN I/O 1

Aux cable

Santa Fe CN-M5
Installation manual

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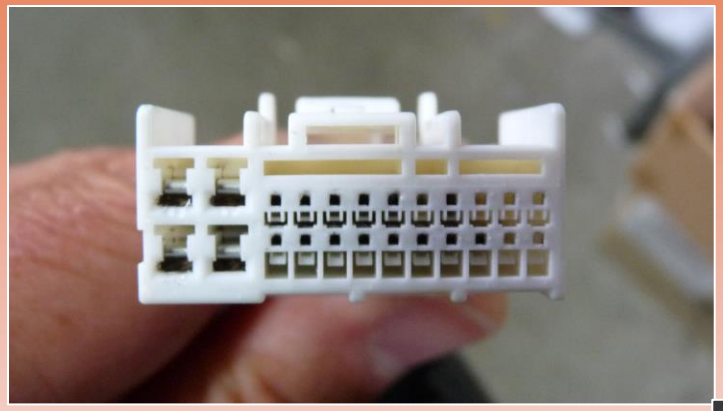
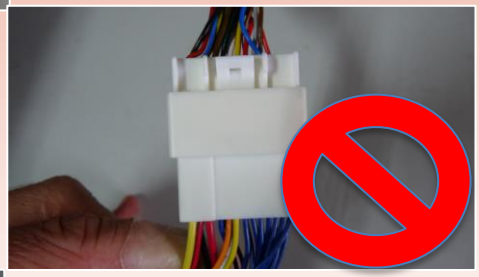
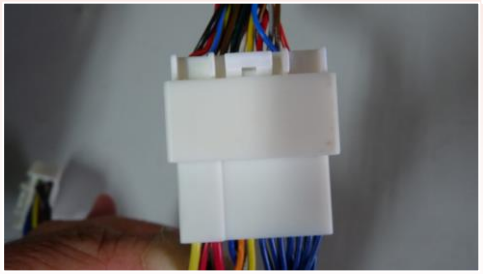


Connect the Audio Patch cord to the car matching connector as shown.



Connectors improperly seated.



Connectors properly seated. You should hear a **CLICK.**

Santa Fe CN-M5
Installation manual

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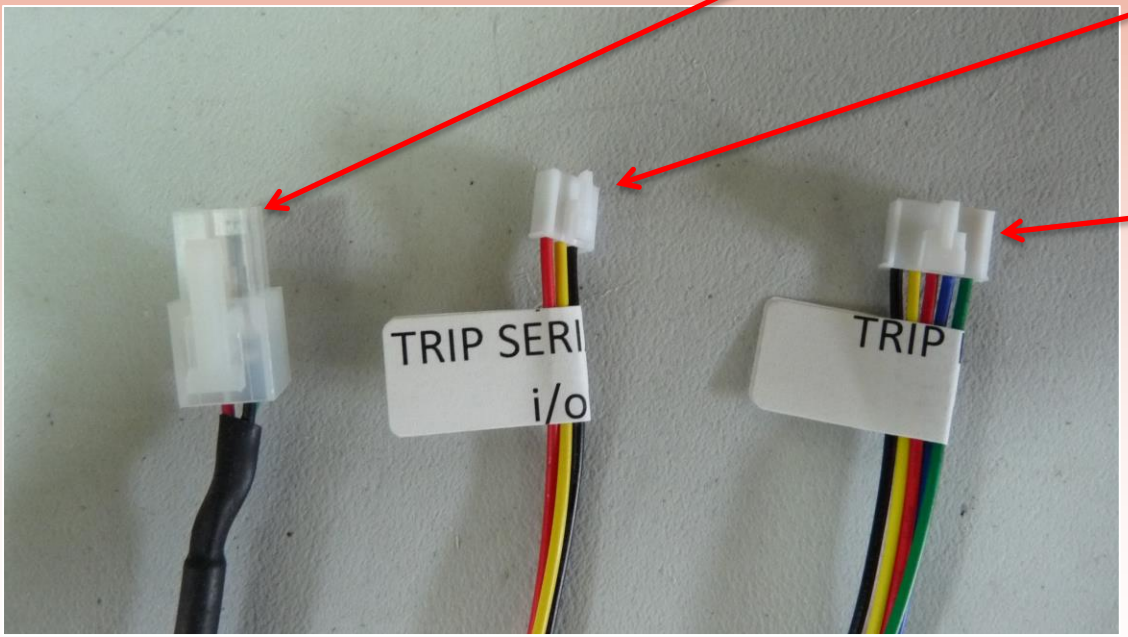

Reserve the CN-M5 4 pins square connector for the final assembly.

Attach the TRIP SERIAL to the MAIN I/O 1 TRIP SERIAL. (Ref: P:11)

Reserve the TRIP MOD cable for the final assembly. It will be plugged in front of the trip module (Ref: P:11)

Santa Fe CN-M5
Installation manual

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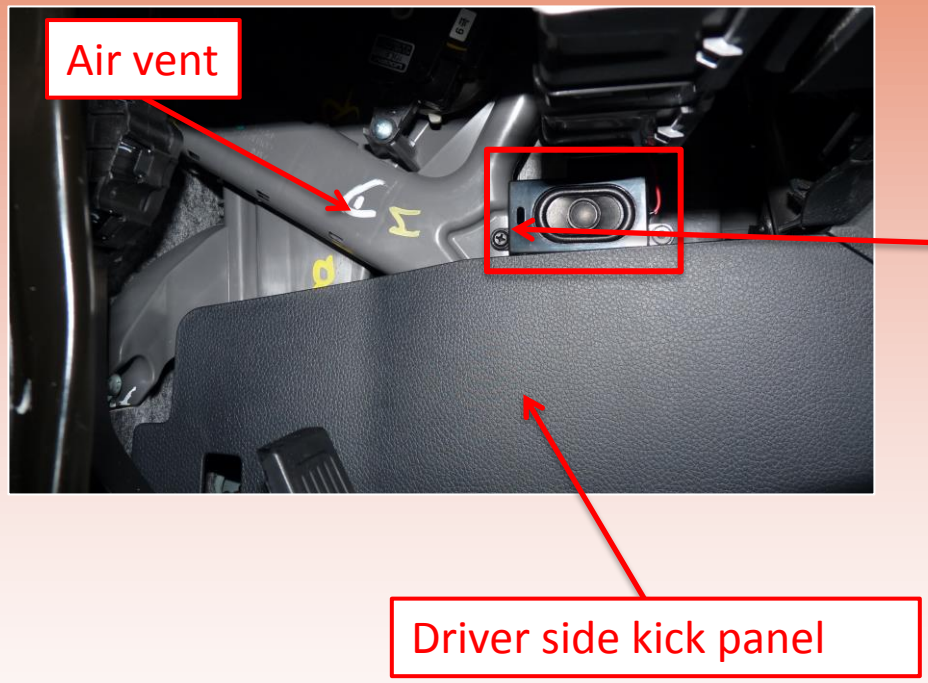
Mini speaker installation



The recommended placement of the mini-speaker is located on the driver side.

Using the provided screw, attach the mini speaker to the side kick panel as shown. The speaker is very light and require only one screw. Once completed, bring the wire to the head unit for final install.

Santa Fe CN-M5
Installation manual

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Section 11
Installation into Vehicle

Santa Fe CN-M5
Installation manual

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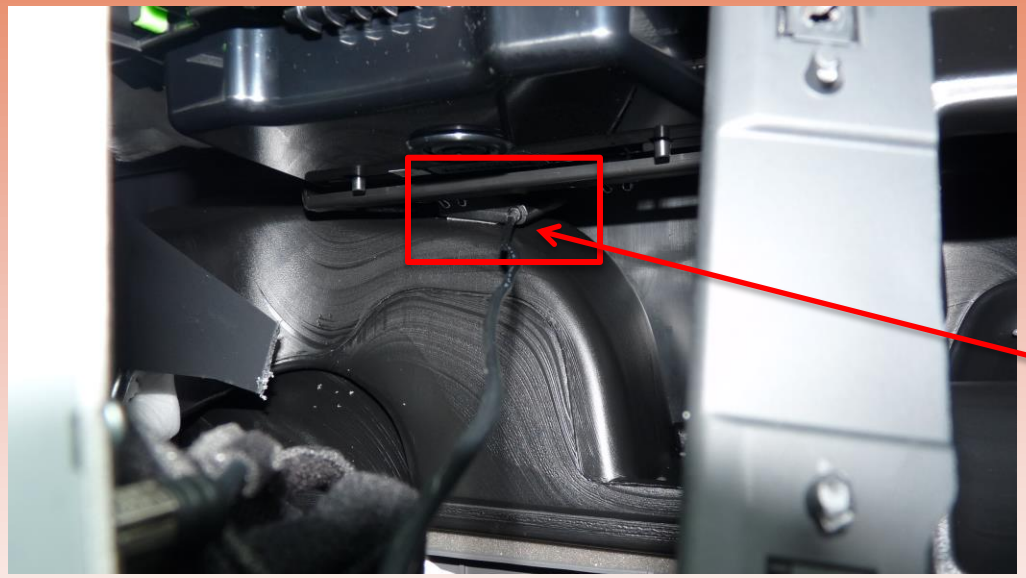

Location of GPS antenna in the dashboard

Using 3M tape attach the GPS antenna above the air duct underneath the dashboard surface. “GPS” letters of the antenna should be towards the sky.

Testing has shown that signal is very good at this point. Route the GPS cable under the radio area clearing the right air opening

Santa Fe CN-M5
Installation manual

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IMPORTANT

Before proceeding to the final installation if you have purchased the following options, please proceed to their installation before completing the final assembly.

- Backup Camera — Appendix 1 page 66 (Santa Fe 4.3 not applicable)
- Parking Assist System — Appendix 2 page 69 (Santa Fe 4.3 not applicable)
- RDS Traffic Tuner — Appendix 3 page 72

Santa Fe CN-M5
Installation manual

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Prior the assembly of the trim to the car, please make sure you have at least the following connected properly .

- **See Appendix 4 for Santa Fe 4.3 Color Touchscreen connection**
- **GPS Antenna to GPS Serial of MAIN I/O 1**
- **TRIP cable to TRIP Serial of MAIN I/O 1**
- **Mini Speaker to SPK of MAIN I/O 1**
- **AUX cable to AUX of MAIN I/O 1**

- OPTIONS:
- **CAMERA to CAMERA of MAIN I/O 1**
- Audio Video Extension cord to AVIN of MAIN I/O 1 for external multimedia player
- Audio Video Extension cord to AVOUT of MAIN I/O 2 for read seat screen and sound
- IR Receiver for Infrared remote of MAIN I/O 2
- TMC cable to TMC Traffic receiver of MAIN I/O 2

Santa Fe CN-M5
Installation manual

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After ensure all cables are correctly brought through to area beneath radio, attach:

- **Radio antenna**
- **XM antenna**
- **Factory reverse camera** (See Appendix 4 for Santa Fe 4.3 Color Touchscreen)
- **Multi-way connectors (2)**
- **Audio Patch cord goes into the first spot.**

And install radio in dashboard. If the radio does not fit well in place, make sure there is no unnecessary cables behind it and ensure they are well placed under the radio.

Affix using the screws removed earlier.

Santa Fe CN-M5
Installation manual

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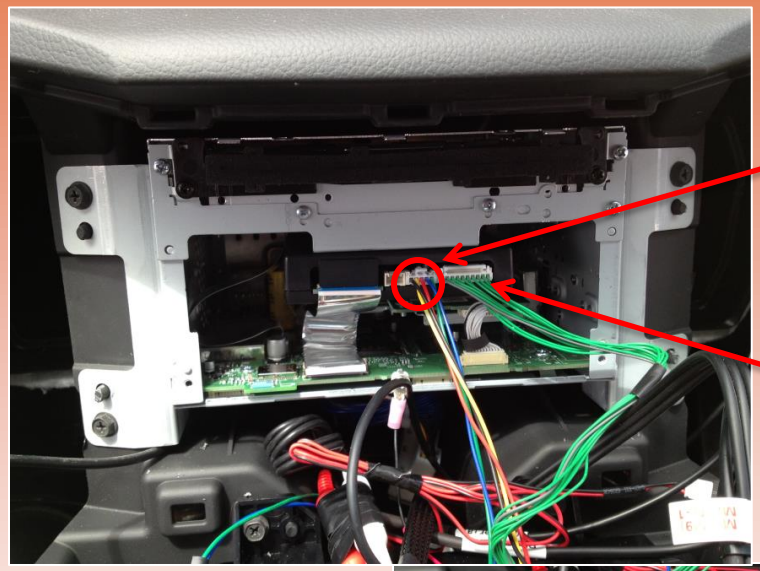
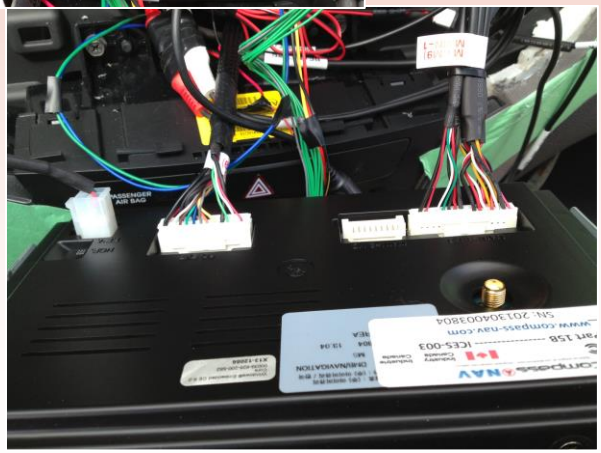


Prior installing the fascia, connect the TRIP cable to the TRIP module as indicated (5 PINS) and **Parking Assist System cable (3 PINS) if purchased.**

Getting ready to attach the new fascia trim, connect:

- Keypad green cable to the TRIP module.



- External media box (SD Card/USB)
- Main I/O 1
- Main I/O 2 (If needed)
- CN-M5 Power (4 PINS square)

Santa Fe CN-M5
Installation manual

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Install the facia temporarily in place and plug back the wires to the battery and test run the CN-M5 navigator.

Prior final assembly, test the following:

- Radio mode (TRIP): FM, XM, USB, AUX, CD Steering Wheel Controls and Voice Commands, etc… ALL functions supported by the factory radio.
- Facia keypad
- Navigation: Check for GPS reception (at least configure the basic settings on start-up)
- MP3 Player: See if you can select music from the File folder (refer to User Manual. Connect a USB thumb drive to the External Media box prior testing)

Once completed, you can proceed with the final assembly. Put back the remaining trim pieces.

Santa Fe CN-M5
Installation manual

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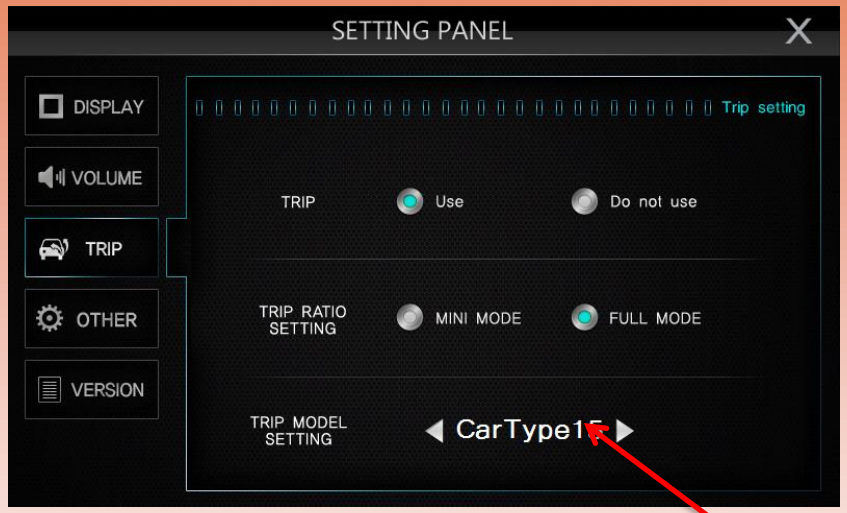

For proper radio operation, the correct car type needs to be selected.

Go into the CN-M5 Setting Panel, Select TRIP and at the bottom change accordingly as below.

Failing to do this may result into a **TRIP.DLL FAILED TO LOAD message.**

2013+ : Santa Fe – CAR TYPE 26
2013+ 4.3 Color Touchscreen: Santa Fe – CAR TYPE 30

Santa Fe CN-M5
Installation manual

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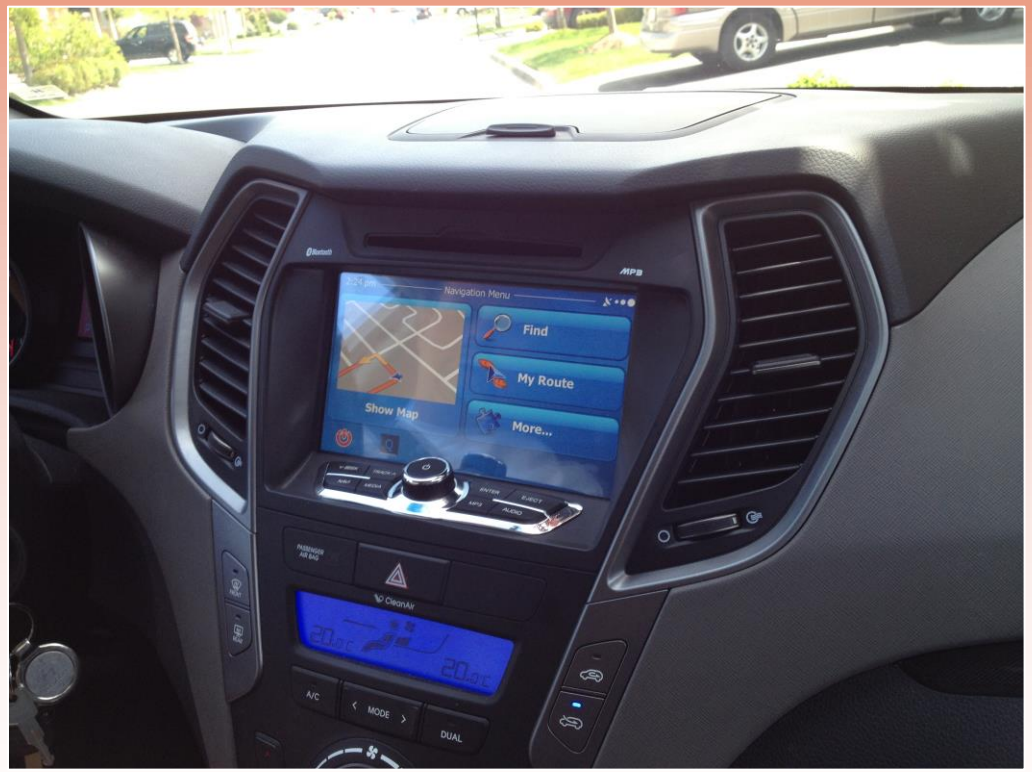
YOU DID IT!



Santa Fe CN-M5
Installation manual

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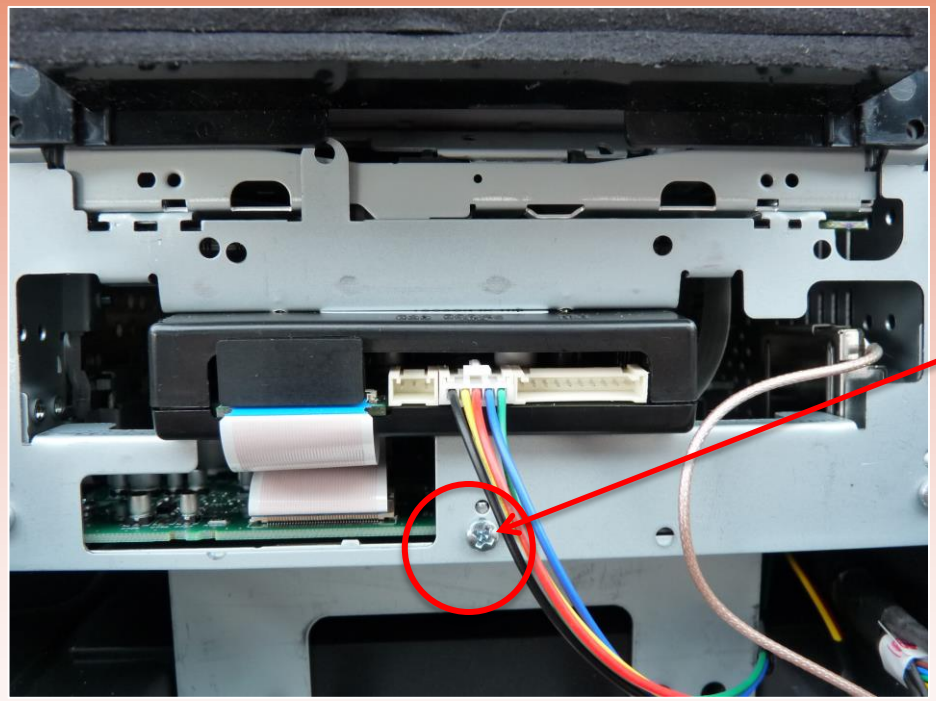
Appendix 1
Reverse Camera Installation

Santa Fe CN-M5
Installation manual

Caution – Documentation is an aid to successful installation. No liability is assumed for incorrect installation. If unsure of expertise required, please consult a qualified installation tech.

Appendix 2: Backup Camera install



Attach the **BLACK** wire from MAIN I/O 1 "**REAR PWR**" to the radio front bottom screw as shown (**Ground**) .

Santa Fe CN-M5
Installation manual

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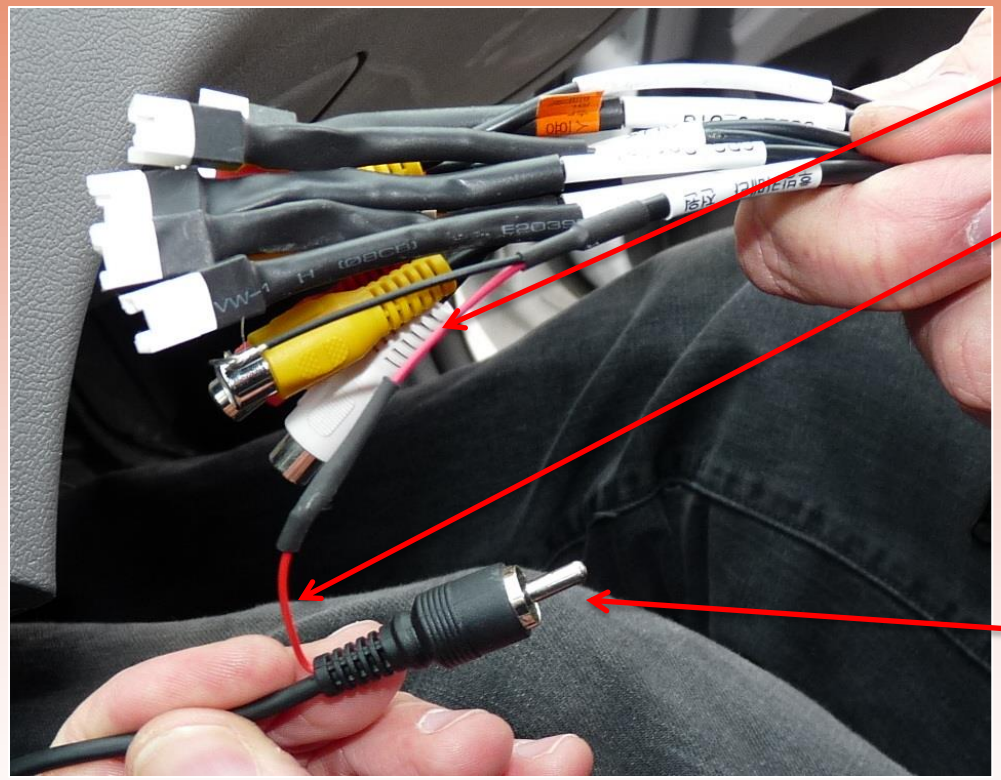

Attach the RED wire from MAIN I/O 1 "**REAR PWR**" to the backup camera RED wire.

Plug the back up camera RCA jack into the same Yellow Camera jack of MAIN 1/O 1

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Appendix 2
Parking Assist

Santa Fe CN-M5
Installation manual

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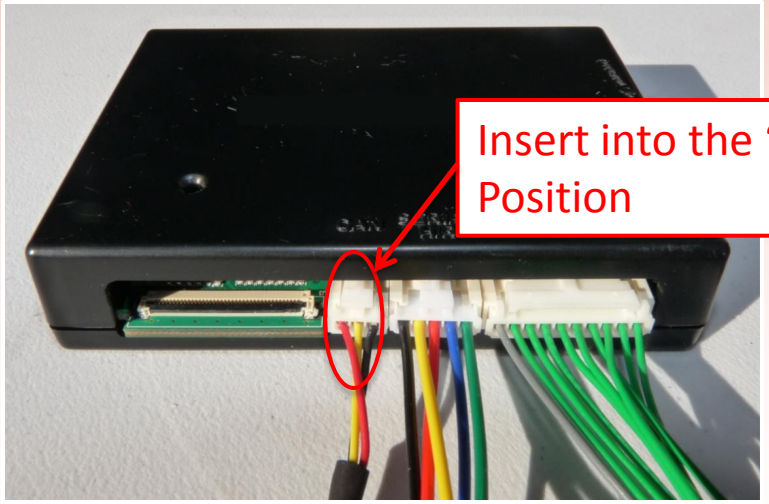
Appendix 3: Parking Assist System

Connection of the Parking Assist System is very simple.



Plug the other end into the Trip Module as shown

Santa Fe CN-M5
Installation manual

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Plug the Parking Assist connector into the car's OBD located right underneath the driver crash pad in the middle. Once inserted, lock it in place by moving the yellow tab until you hear a "click".

Note: Please advise your dealer about this sensor and how to proceed to remove it.

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Appendix 3
RDS Traffic Tuner

Santa Fe CN-M5
Installation manual

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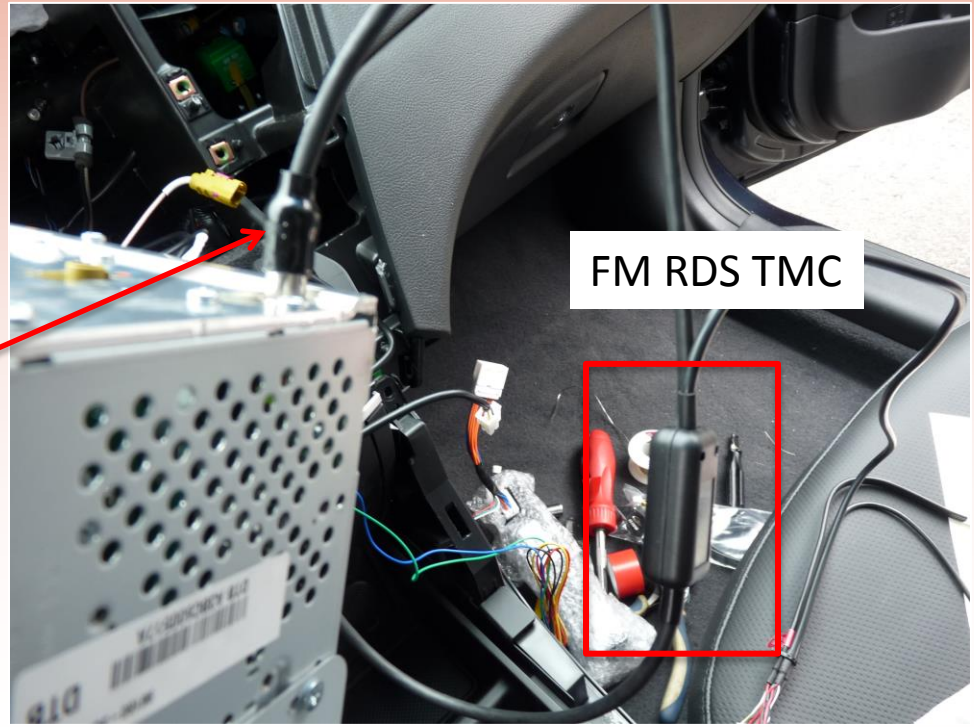
Connect the female TMC FM adapter to the car male.

Connect the male TMC FM adapter to the back of the radio. Reserve the white connector **MAIN I/O 2** for the final assembly.



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Appendix 4
4.3” factory color touchscreen supplement

Santa Fe CN-M5
Installation manual

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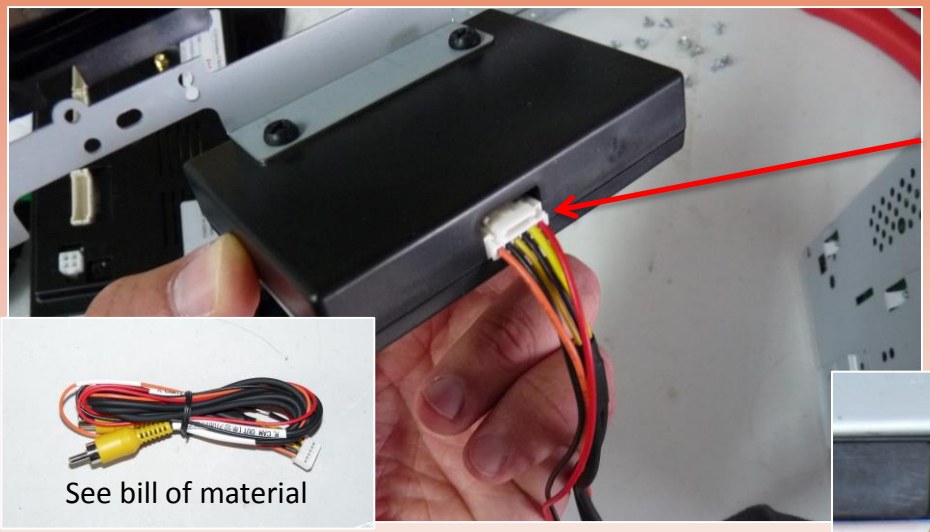
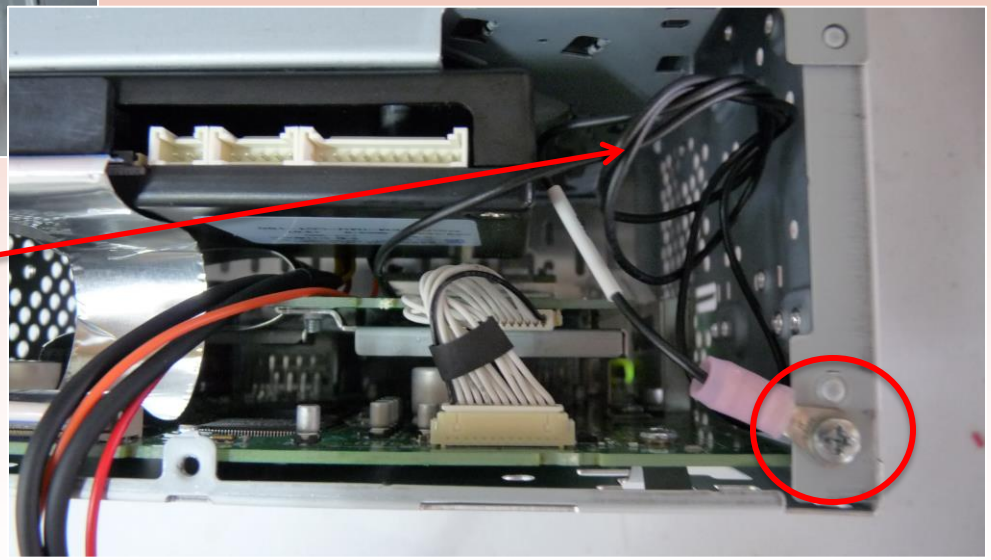
Connect Trip module Video & Signal cable



See bill of material

1- Prior Installing the trip module into the radio chassis, connect the trip module video & signal cable at the back of the trip module as shown. Then guide the trip module inside the radio body, make sure all the wires are directed to the front of the radio chassis.



2- Locate the wire labeled **GND** from the wires brought to the front; make a loop and attach the terminal to the lower right corner of the radio chassis using one of the screws removed from the factory faceplate.

Once this step completed, return to the section you came from.

Santa Fe CN-M5
Installation manual

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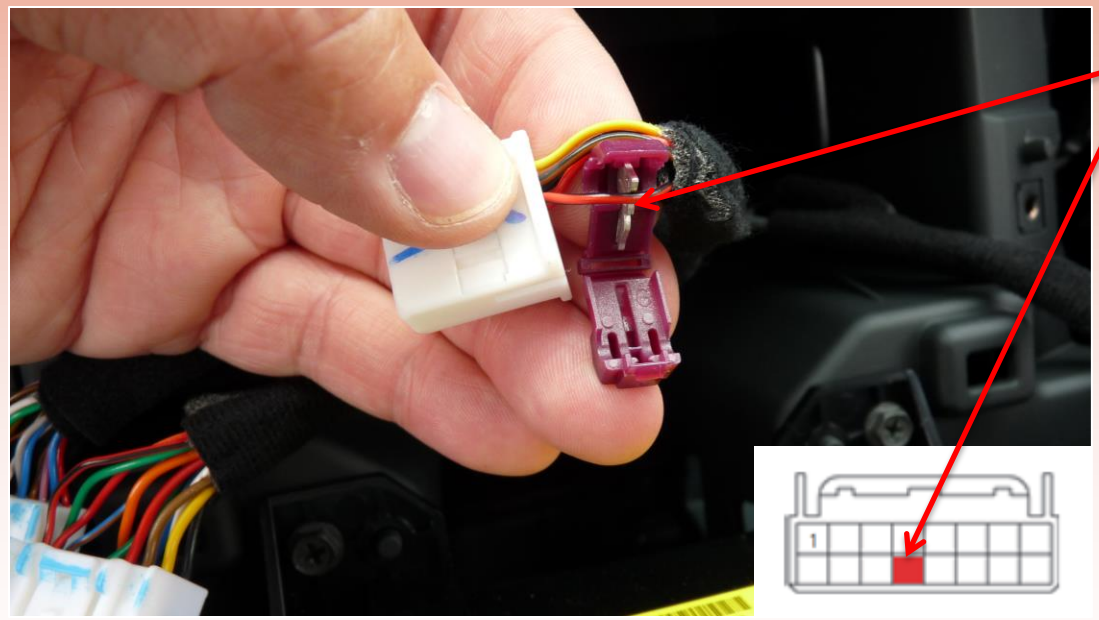
Santa Fe 4.3 Color Touchscreen connection

To ease your work, have the radio body sitting on the dashboard surface on top of the radio opening. Avoid surface damage by laying down a protective layer under the radio body!



Locate the Red wire with Black stripes at the location shown. Engage the wire into the T-TAP terminal slit then fold the T-TAP lower jaw until it “clicks”.

Proceed with the next page…

Santa Fe CN-M5
Installation manual

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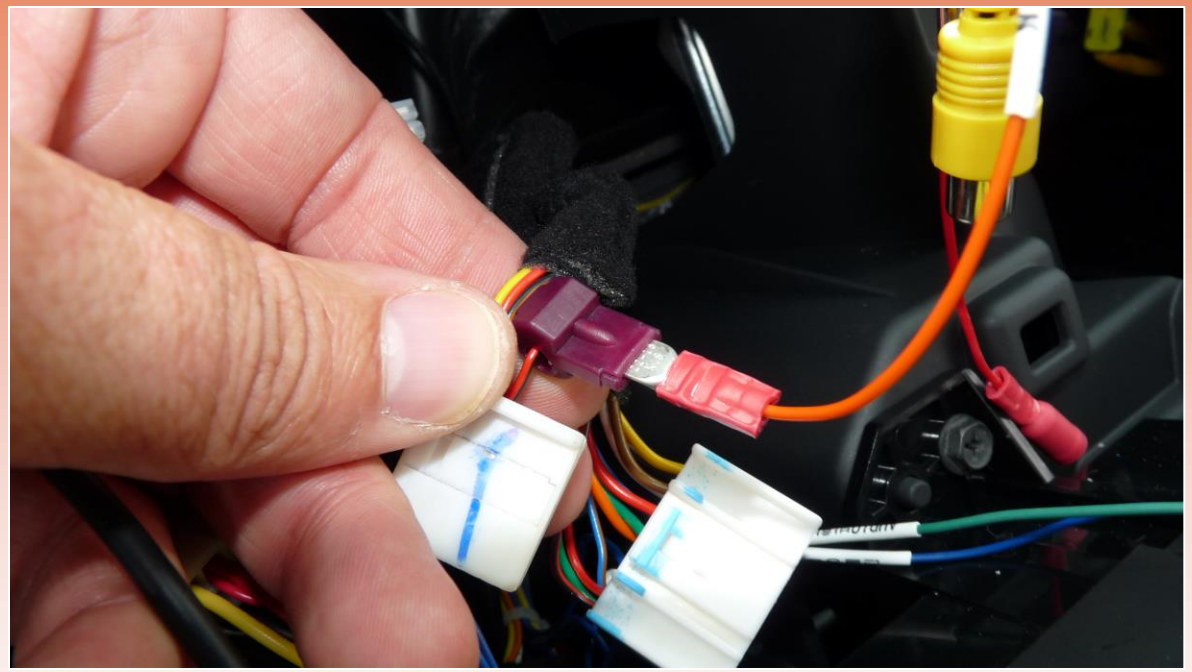

Locate the Orange wire coming out from the radio labeled **R. CAM12V IN** and insert the flat terminal into the T-TAP terminal all the way in.

Now the trip module will sense the reverse gear position and will manage the backup view ☺

Once this step completed, return to the section you came from. You can proceed with the radio install into the dashboad.

Santa Fe CN-M5
Installation manual

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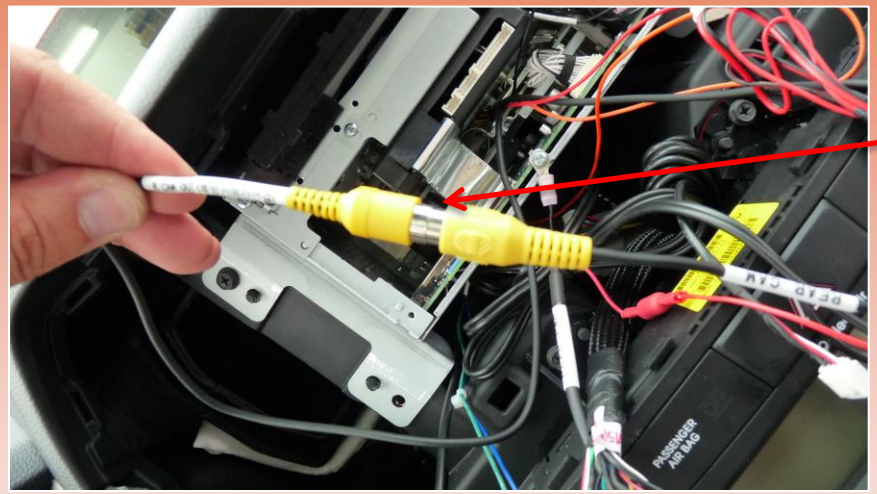
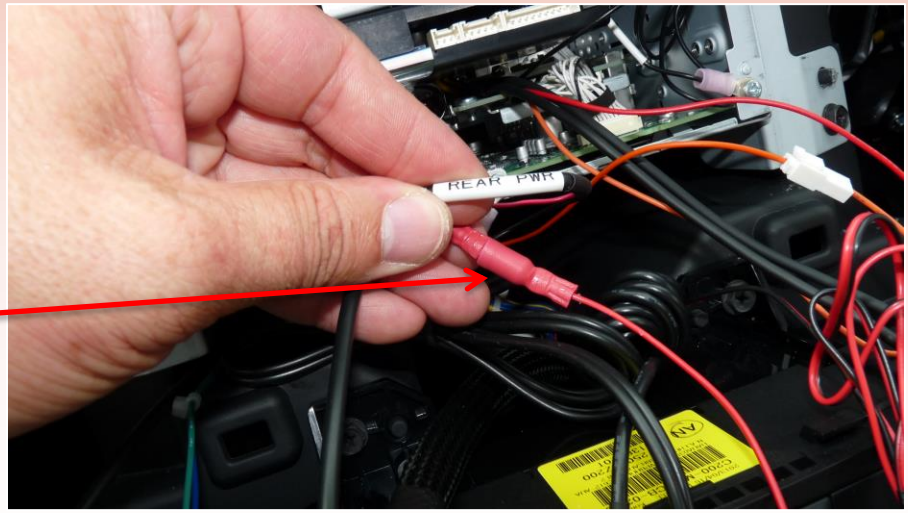
Factory Reverse Camera



Locate the male Yellow RCA labeled **R.CAM OUT** from the radio body and plug into the **MAIN I/O 1 REAR CAM** cable. Secure with electrical tape.

Locate the Red wire labeled **R.CAM 12V OUT** coming out from the radio and plug into the **RED** male bullet terminal of the **MAIN I/O 1** labeled **REAR PWR**.



Santa Fe CN-M5
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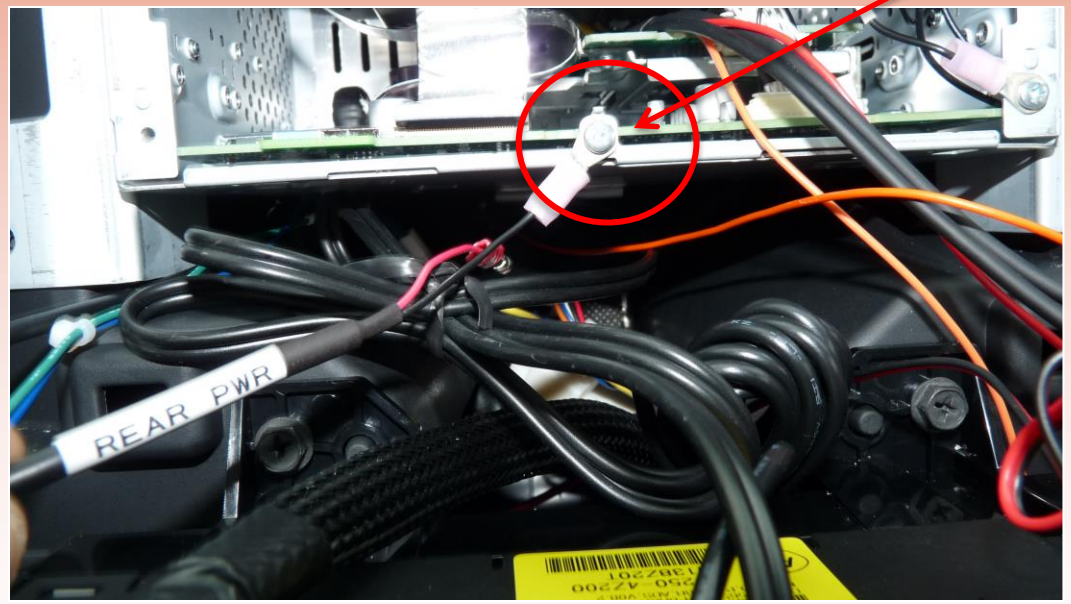

Locate the **BLACK** wired terminal of the **MAIN I/O 1** labeled **REAR PWR** and attach the terminal to the lower middle threaded hole of the radio chassis using one of the screws removed from the factory faceplate.

<u>Once this step completed, return to the section you came from. You almost done with your install!</u>

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Tips and tricks

To avoid over heating wire and connectors, it is recommended you use soldering acid Flux. This will greatly improve the quality of the soldering points. Before soldering, dip Into the acid flux paste the end of the soldering rod and apply a little flux to the wire section you wish to solder.

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END